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Beocenter 2300

Type 2611, 2612, 2613, 2614 2615, 2616, 2617, 2618, 2619, 2620

Corrections

CD

New Version, CDM12





Beosystem 2500

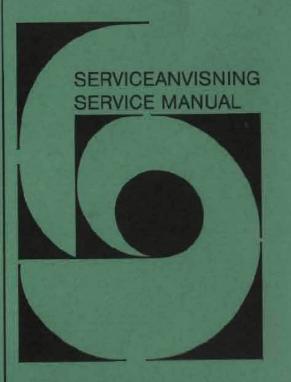
Type 2701, 2702, 2703, 2704 2705, 2706, 2707, 2708, 2709, 2710

Beocenter 2500

Type 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610

Beolab 2500

Type 6201, 6202, 6203, 6204, 6205



BANG & OLUFSEN DK - 7600 STRUER DENMARK

TELEPHONE 97851122*
CABLE ADRESS BANGOLUF
TELEFAX 97853912

3538775 A 04-95

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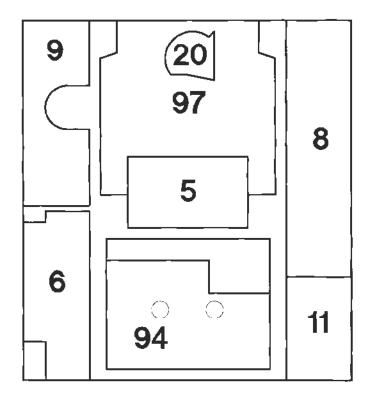
1-1

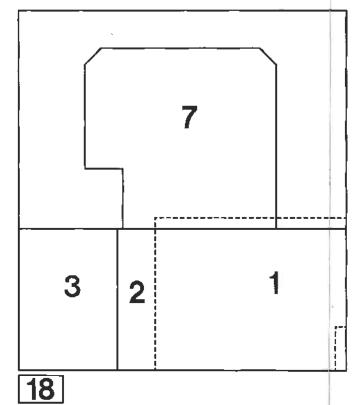
1-1

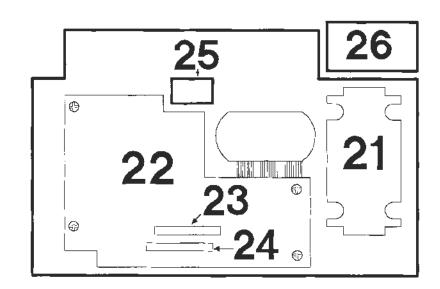
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1-1









TECHNICAL SPECIFICATIONS Beocenter 2500	 -				
	Tuno 2601 (Ell), 2602 (CD)				
With FM range	Type 2601 (EU), 2602 (GB), 2603 (USA-CDN), 2604 (JAP), 2605 (AUS)				
With FM and AM range	Type 2606 (EU), 2607 (GB),				
With Fire and Air range	2608 (USA-CDN), 2609 (JAP), 2610 (AUS)				
Operation	Direct keypad				
Recommended terminal	Beolink 5000, two-way				
neconfinenced terminal	Beolink 7000, two-way, interactive				
	Beolink 1000, one-way				
Finish					
Amplifier	Black, aluminium, light grey Power amplifier in Beolab 2500				
Ampine	·				
	Refer to tech, spec, on Beglab 2500				
Preamplifier section:					
Total harmonic distortion IHF	<0.1%/1 kHz				
Response vs. frequency:					
AUX in	10-20,000 Hz ±1 dB				
Input sensitivity/impedance:	The state of the s				
AUX	100 mV				
Input impedanc, AUX	110 kΩ				
Max. Input signal, AUX	2.5 V				
Signal-to-noise ratio:	LIV 7				
AUX, A-weighted	>80 d3				
Channel separation 10 kHz, AUX	>60 d3				
Output:	> 00 UP				
Headphones	Max, 10 V/220 Q				
Bass control at 40 Hz	±10 dB				
Treble control at 12,500 Hz	±8 dB				
TICOLO CONTROL 12,000 FIZ	±0 00				
Tuner, FM section:					
FM range	87.5-108 MHz				
FM aerial impedance	75 Ω				
Usable sensitivity mono	14 dBf-1.4 _P V				
Usable sensitivity stereo	19 dBf-2.5 _P V				
50 dB quieting sensitivity mono	19 dBf-2.5µV				
50 dB quieting sensitivity stereo					
	40 dBf-28µV				
Signal-to-noise ratio 65 dBf mono	75 dB				
Signal-to-noise ratio 65 dBf stereo	70 dB				
Frequency response, stereo Distortion at 65 dBf mono	30-15,000 Hz +1/-3 dB				
70.000	0.3%				
Distortion at 65 dBf stereo	0.3%				
Intermodulation mono	0.1%				
Intermodulation stereo	0.1%				
Capture ratio	1.7 dB				
Adjacent channel selectivity	6 dB				
Alternate channel selectivity	62 dB				
Spurious response	100 dB				
Image response ratio	80 dB				
IF response ratio	80 dB				
AM suppression	57 dB				
Stereo channel separation	40 dB				
Subcarrier product rejection	50 dB, stereo				
Tunor Att postions	·				
Tuner, AM section: AM range	LW 150-350 kHz				

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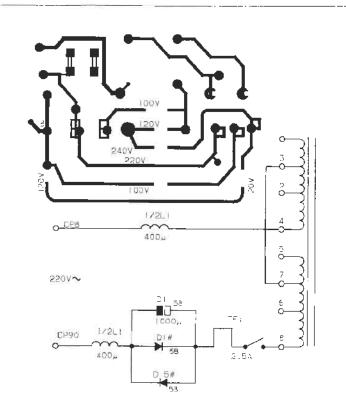
LW sensitivity 20 dB S/N ratio	80 μV/200 kHz
MW sensitivity 20 dB S/N ratio	60 μV/1000 kHz
Number of programmes	2×20
Tape recorder section:	
Compact cassette	C46-C120
Tape recording system	HX PRO
Tape transport	Auto Reverse
Search system	Auto Track
Record level	Auto Record Level
Noise reduction	Dolby B
Tape switch	Auto ferro/chrome/metal
Tape head	Amorphous
Wow and flutter, DIN	<0.15%
Wow and flutter, WRMS	<0.09%
Speed deviation	<u><±1,5</u> %₃
Fast forward and rewind	95 sec./C60
Frequency range chrome	30-16,000 Hz ±3 dB
Signal-to-no'se ratio IEC/DIN:	(**************************************
Metal	>54 dB
Chroms	>56 dB
Ferro	>54 dB
Driveability 10,000 Hz, metal	0 dB
Driveability 10,000 Hz, chrome/ferro	-7 dB
Distortion, ferro	<2%
Channel separation	>45 dB
Erasure	>70 dB
Erasure frequency	98 kHz
OD plane.	
CD player:	10 (5% 9 (0%)
CD, disc types	12 cm (5"), 8 cm (3") 20-20,000 Hz ±0.2 dB
Frequency range	The state of the s
Signal-to-noise ratio	>95 dB/110 dB A-weighted
Dynamic range	>98 dB
Harmonic distortion	0.0025% at 0 dB
Channel separation	>100 dB
Channel difference	<0.1 dB
Converter system	2 x 16 bit, 4 x oversampling
Low pass filter analog	Bessel
Damping >20,000 Hz	>60 dB
Phase error between L and R	0 degree at 20-20,000 Hz
Connections:	
Audio Link	AUX
Power Link	Beolab speakers, 2 sockets 8-pin
Master Control Link	Via MCL 2P
Power supply	220 volts
Power frequency	50-60 Hz
Power consumption	Max. 35 watts
Dimensions W x H x D	31 x 36 x 16 cm
Weight	6.9 kg
g.	

1-2

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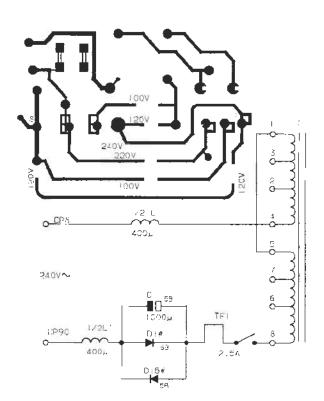
Beolab 2500	Type 6201 (EU), 6202 (GB),			
	6203 (USA-CDN), 6204 (JAP), 6205 (AUS)			
	(100)			
System data:				
requency response	55-20,000 Hz +4-8 dB			
	70-20,000 Hz <u>-</u> 2 dB			
ound Pressure Level	103 dB weighted noise (IEC 268-5)			
	1 m/stereo/room			
nput impedance	>47 kΩ			
larmonic distortion	<1%/94 dB SPL, 1 m, 250-5.000 Hz			
lectronics:				
mplifier signal to noise ratio	>96 dB			
ctive crossover network	24 dB/octave, Linkwitz/Riley			
ligh pass filter	30 dB/octave, 50 Hz			
ow frequency equalization	40-350 Hz/11 dB			
coustics and cabinet: abinet principle	Bass Reflex			
Voofer	4 ¹ / ₂ " - 11 cm			
weeter	1*-2.5 cm			
rossover frequency	2,500 Hz			
et volume	2,300 HZ 2.8 litres			
or rotatile	2.0 110 85			
ower amplifier:				
equency range	40-20,000 Hz +0 -1 dB			
gnal-to-noise ratio	>96 dB A-weighted, max. power			
put sensitivity/impedance:				
ower Link sockets	1 V/47 kΩ			
ower Link channel separation	>55 dB/10,000 Hz			
and by function	Automatic ON-OFF			
onnections:				
ower Link	8-pin socket			
C in	Male, 2-pin			
Cout	Female, 2-pin, max. 2A			
ower supply	220 volts			
ower consumption	Max. 100 watts			
tand by	<2 watts			
otal dimensions W x H x D	26 x 36 x 12 cm			
Veight	6 kg			
Optional accessories:				
Bracket 2500	Type 2087			
IDS kit	Type 2207			
ront cover, Beolab 2500	Cobalt 1603678			
JOIN SOTER, DEGICED EDGG	Grey 1603679			
## ## The state of	Black 1603676			
	White 1603675			
	Cerise 1603674			
202	Jade 1603673			
subject to change without notice				

WIRING OF TRANSFORMER Beocenter 2500, PCB 2 Type 2601, 2606 EU 220 V~



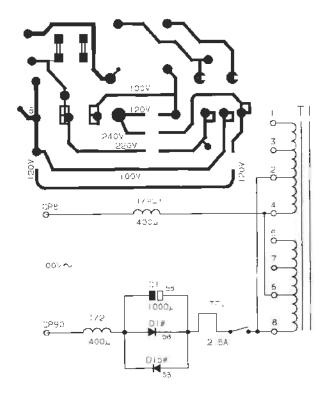
Type 2603, 2608 CND, USA 120 V~

Type 2602, 2605, 2607, 2610 GB, AUS 240 V~

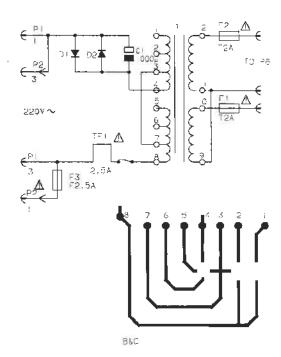


Type 2604, 2609 JPN 100 V~

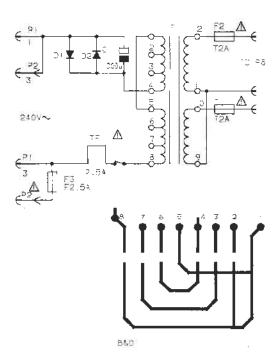




TRANSFORMER WIRING BEOLAB 2500, PCB 11 Type 6201 EU 220 V~

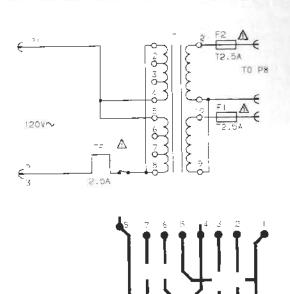


Type 6202, 6205 GB, AUS 240 V~



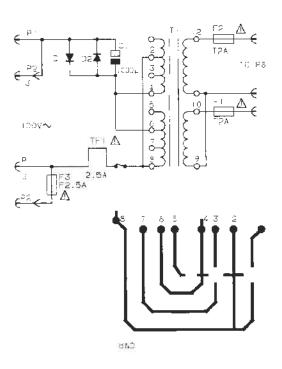
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Type 6203 CND, USA 120 V~



Type 6204 JPN 100 V~







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DIAGRAMFORKLARING

På diagrammerne er der angivet typenumre på transistorer og IC'er. Hvis positionsnummeret er efter fulgt af en stjerne, skal reservedelsnummeret altid benyttes, da denne komponent er specielt udvalgt, f.eks. TR102*.

Komponenttryk og koordinatsystem

De største printplader er forsynet med komponenttryk og et koordinatsystem på både print- og komponentside.

På diagrammerne er enhver komponent forsynet med et koordinatnummer. Dette fortæller i hvilket koordinat på printpladen, komponenten er placeret. Koordinatnumrene er angivet med mindre skrifttype end positionsnumrene.

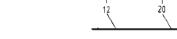
Styrekredsløb

I visse styrekredsløb er den aktive tilstand angivet med en funktions- eller bogstavsangivelse. Denne kan eksempelvis være ST.BY. = »low« i stand-bystilling eller ST.BY. = »high« i stand-by-stilling.

Ledningsforbindelser

Ledningsforbindelserne på diagrammerne er samlet i »bundter«. De enkelte ledninger er forsynet med en af følgende koder:

INTERN FORBINDELSE PÅ EN DIAGRAMSIDE



Interne forbindelser på en diagramside angives med - Internal connections on a diagram page are indicatet tal. Knækket på ledningen viser, i hvilken retning. den anden ende af ledningen findes.

FORBINDELSE TIL EN ANDEN DIAGRAMSIDE

DIAGRAM A



Forbindelsen til en anden diagramside angives med et tal samt et bogstav for det diagram, forbindelsen går til.

Forsyningsspændinger

Alle forsyningsspændinger i diagrammerne er angivet med en pil og en spændingsangivelse.

Eksempel:

Ved siden af spændingsangivelsen står der f.eks. 7 CON. Dette betyder, at den pågældende forsyningsspænding går til 7 steder på den pågældende diagramside (7 CON. = 7 connections).

EXPLANATION OF DIAGRAM

Type numbers of transistors and ICs are indicated on the diagrams.

If the position number is followed by an asterisk the spare part number must always be used because the component in question has been specially selected. e.g. TR102*.

Component print and coordinate system

The largest PCBs have component prints and a coordinate system on both the print and the compo-

On the diagrams every component has a coordinate number. This indicates in which coordinate on the PCB the component is situated. The coordinate numbers are written in smaller print types than the position numbers.

Control Circuit

In certain control circuits the active mode is indicated by a function term or by an abbreviation. This may be e.g. $\overline{ST.BY}$ = low in the stand-by mode or ST.BY. = high in the stand-by mode.

Wiring Connections

The wiring connections on the diagrams are assembled in 'bundles'. The individual wires are provided with one of the following codes:

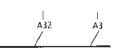
INTERNAL CONNECTION ON ONE DIAGRAM PAGE



ed by a number. The bend of the wire indicates in which direction the other end of the wire is found.

CONNECTION TO ANOTHER DIAGRAM PAGE

DIAGRAM C



A connection to another diagram page is indicated by a number as well as by a letter of the diagram to which the connection leads.

Supply Voltages

All supply voltages in the diagrams are indicated by an arrow and a voltage indication.

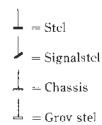
Example:

"7 CON.". This means that the supply voltage in question goes to 7 different places on the diagram page in question (7 CON. = 7 connections).

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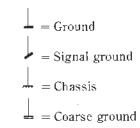
Stelsymboler

Der anvendes fire forskellige stelsymboler i appa-



Ground Symbols

Four different ground symbols are used in the set.







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SYMBOL FOR SIKKERHEDSKOMPONENTER



Ved udskiftning af komponenter med dette symbol skal der anvendes komponenter med samme reservedelsnummer. Den nye komponent skal monteres på samme måde som den udskiftede.

MÅLEBETINGELSER

Alle DC-spændinger er målt i forhold til stel med et voltmeter med en indgangsimpedans på 10 Mohm.

DC-spændingerne er opgivet i volt (V), f.eks. 0.7 V.

Alle oscillogrammer og AC-spændinger er målt i forhold til stel med et oscilloskop eller et voltmeter med en indgangsmodstand på 1 Mohm.

AC-spændingerne er opgivet i millivolt (mV), f.eks. 660 mV.

Advarsel





Det gule og sørte mærkat på CD-afspilleren er en advarsel om, at apparatet indeholder et lasersystem og er klassificeret som et klasse I laserprodukt. Apparatet må kun åbnes af fagtéknikere.

CD laserdiode:

Bølgelængde Effekt 780 mm ±20 nm, 30°C 2 mW ±0.1 mW, 30°C

SYMBOL OF SAFETY COMPONENTS



When replacing components with this symbol, components with identical part numbers must be used. The new component must be mounted in the same way as the one replaced.

MEASURING CONDITIONS

All DC voltages have been measured in relation to ground with a voltmeter with an input impedance of 10 Mohms.

The DC voltages are stated in volts (V), e.g. 0.7 V.

All oscillograms and AC voltages have been measured in relation to ground with an oscilloscope or a voltmeter with an input resistance of 1 Mohm.

 ΛC voltages are stated in millivolts (mV), e.g. 660 mV.

Caution

The use of any controls, adjustments or procedures other than those specified herein may result in hazardous radiation exposure.





The black and yellow label on the compact disc player serves as a warning that the apparatus contains a laser system and is classified as a class I laser product. The apparatus must be opened by qualified servicemen only.

CD laserdiode:

Wavelength Effect 780 mm ±20 nm, 30°C 2 mW ±0.1 mW, 30°C

WARNING LITHIUM BATTERIES

ADVARSEL!

LITHIUMBATTERI — EKSPLOSIONSFARE
JOSKIFTNING MA KUN FGRETAGES AF EN SAGKYNDIG.
OG SOM BESKREVFT I SERVICE MANUAL

WARNING!

LITHIUM BATTERY — RISK OF EXPLOSION
TO BE REPLACED BY QUALIFIED SERVICEMAN ONLY
AND AS DESCRIBED IN THE SERVICE MANUAL

Kortslutning og overopladning af visse typer lithium-batterier kan medføre en voldsom eksplosion.

Ved udskiftning af lithium-batteriet i dette apparat må der kun anvendes et batteri af det fabrikat og den type, der er angivet i denne serviceanvisning (se side 3-5).

Batteriet skal monteres nøjagtigt som det originale batteri.

Short-circuit and overcharging of some types of lithium batteries may result in a violent explosion.

When replacing the lithium battery in this set, use only batteries of the make and type mentioned in this service manual (see page 3-5).

Fit the battery exactly like the old one.

Explanation of the fuse symbols used in the set

Replace with the same type 1 ampere 250 volts quick acting fuse.



Replace with the same type 2.5 ampere 250 volts slow acting fuse.



Replace with the same type 1.6 ampere 250 volts slow acting fuse.



Replace with the same type 2 ampere 250 volts slow acting fuse.



Replace with the same type 2.5 ampere 250 volts quick acting fuse.



Explanation des symboles de fusible utilisés dans l'appareil

Remplacer par un fusible rapide de même type et de 1 ampères 250 volts.



Remplacer par un fusible retardè de même type et de 2.5 ampères 250 volts.



Remplacer par un fusible retardè de même type et de 1.6 ampères 250 volts.



Remplacer par un fusible retardé de même type et de 2 ampères 250 volts.

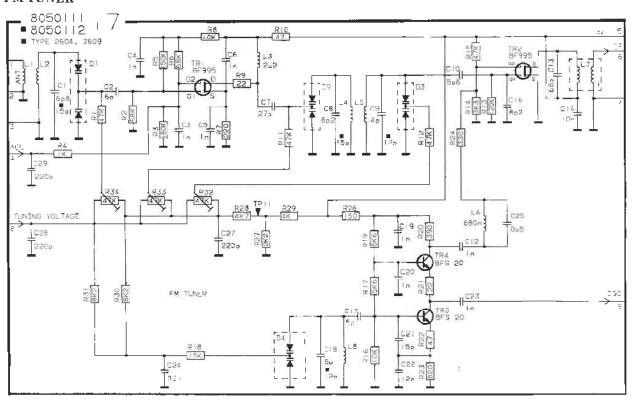


Remplacer par un fusible rapide de même type et de 2.5 ampères 250 volts.



FM TUNER

1-11



The FM TUNER is a single unit.
With failure in this unit we recommend replacing the Whole unit.
However the part nos. of semi-conductors are in the lidt of semi-conductors.



Wiring diagram

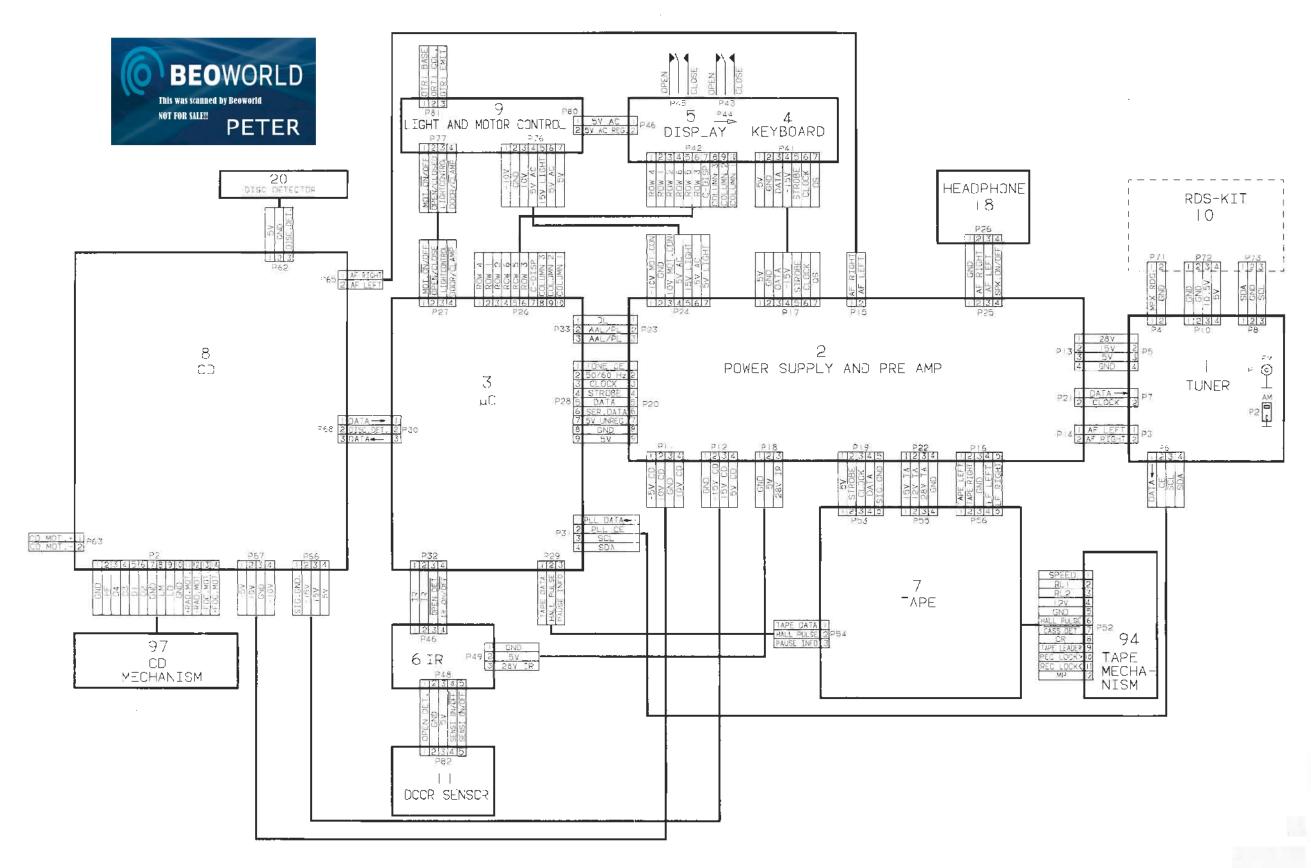




DIAGRAM A FM/AM, RF, IF decoder (for new versions, see diagram on page 10-1 (BC 2300))

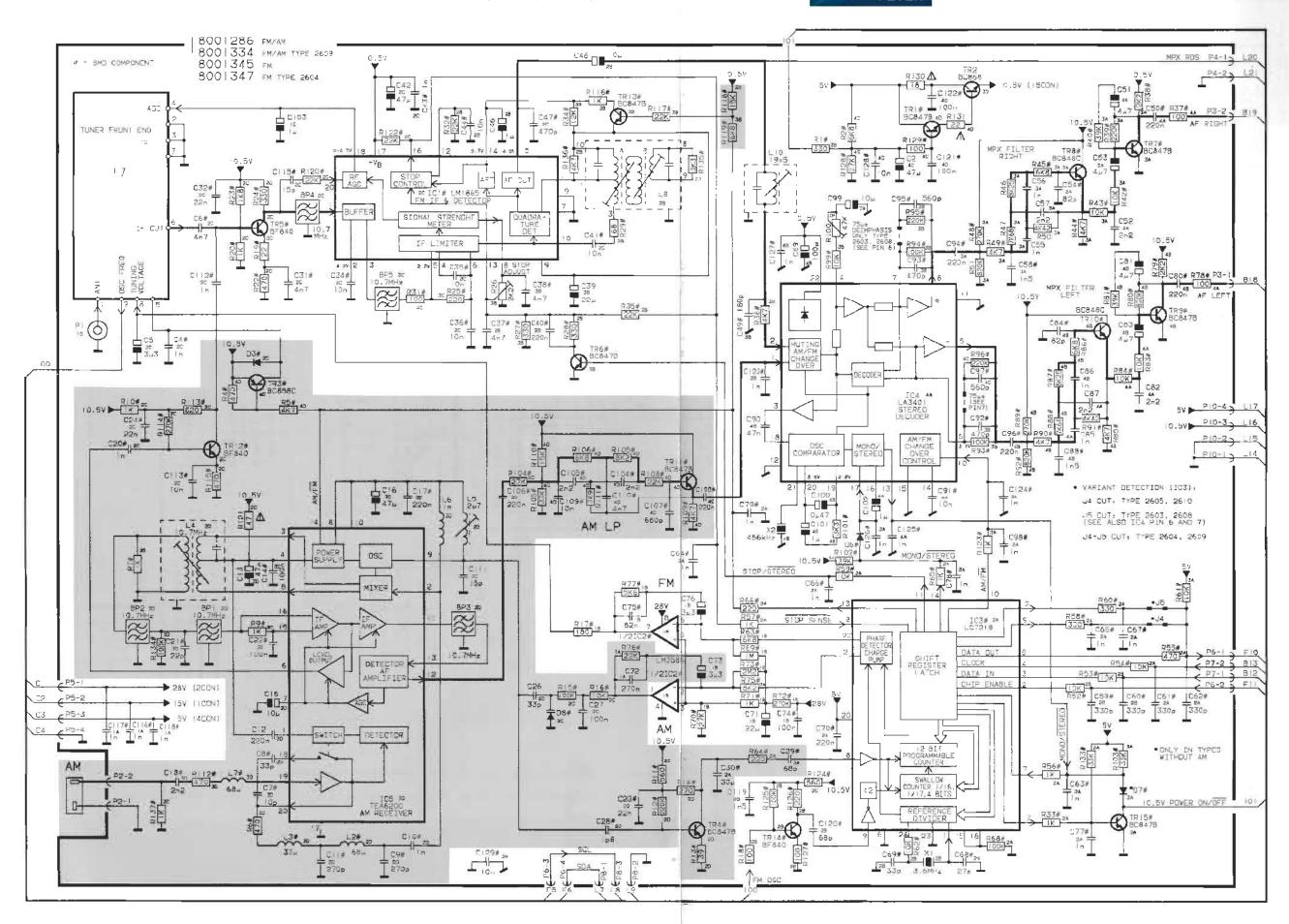


DIAGRAM B PRE AMPLIFIER

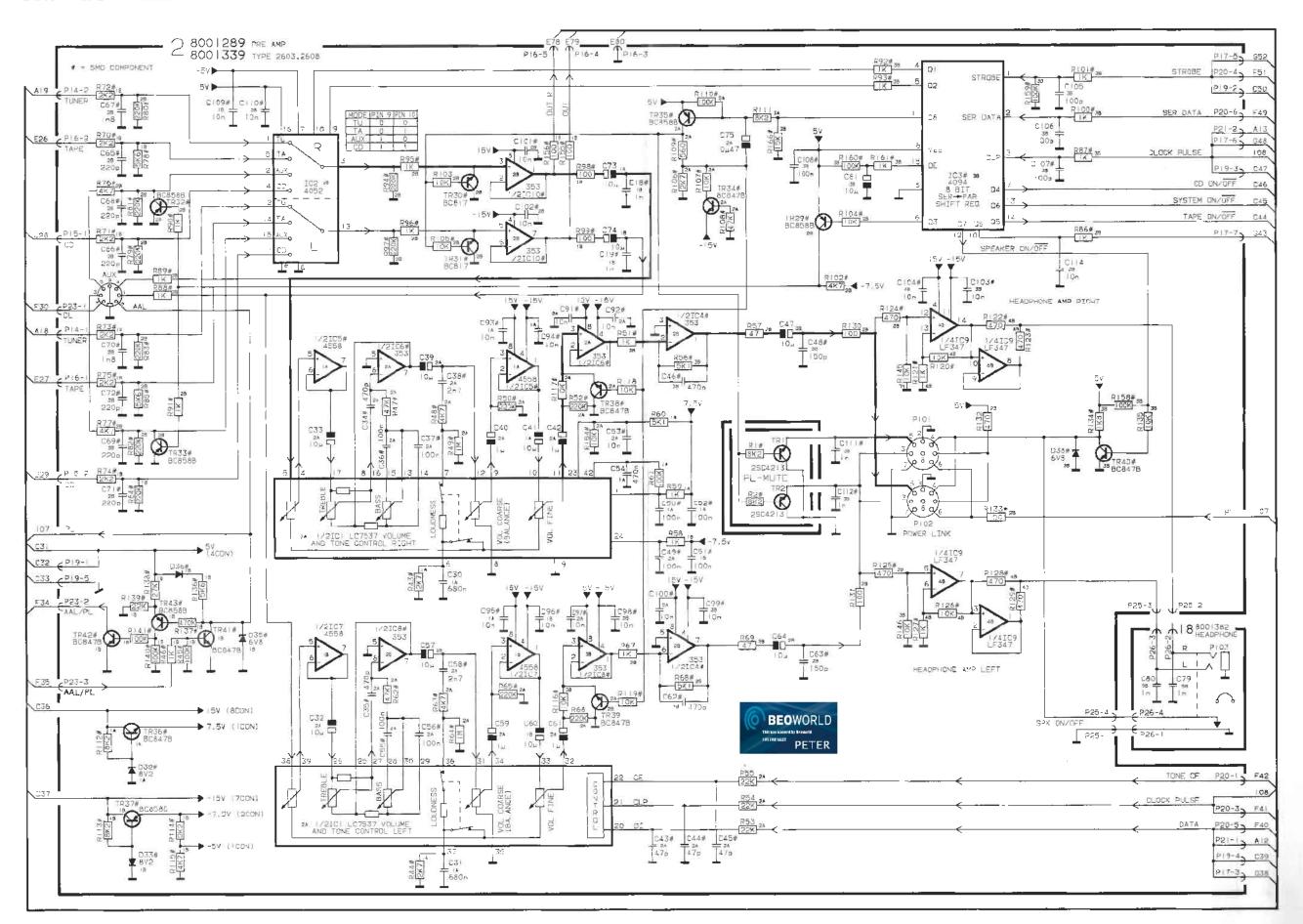


DIAGRAM C POWER SUPPLY, TAPE DATA CONTROL

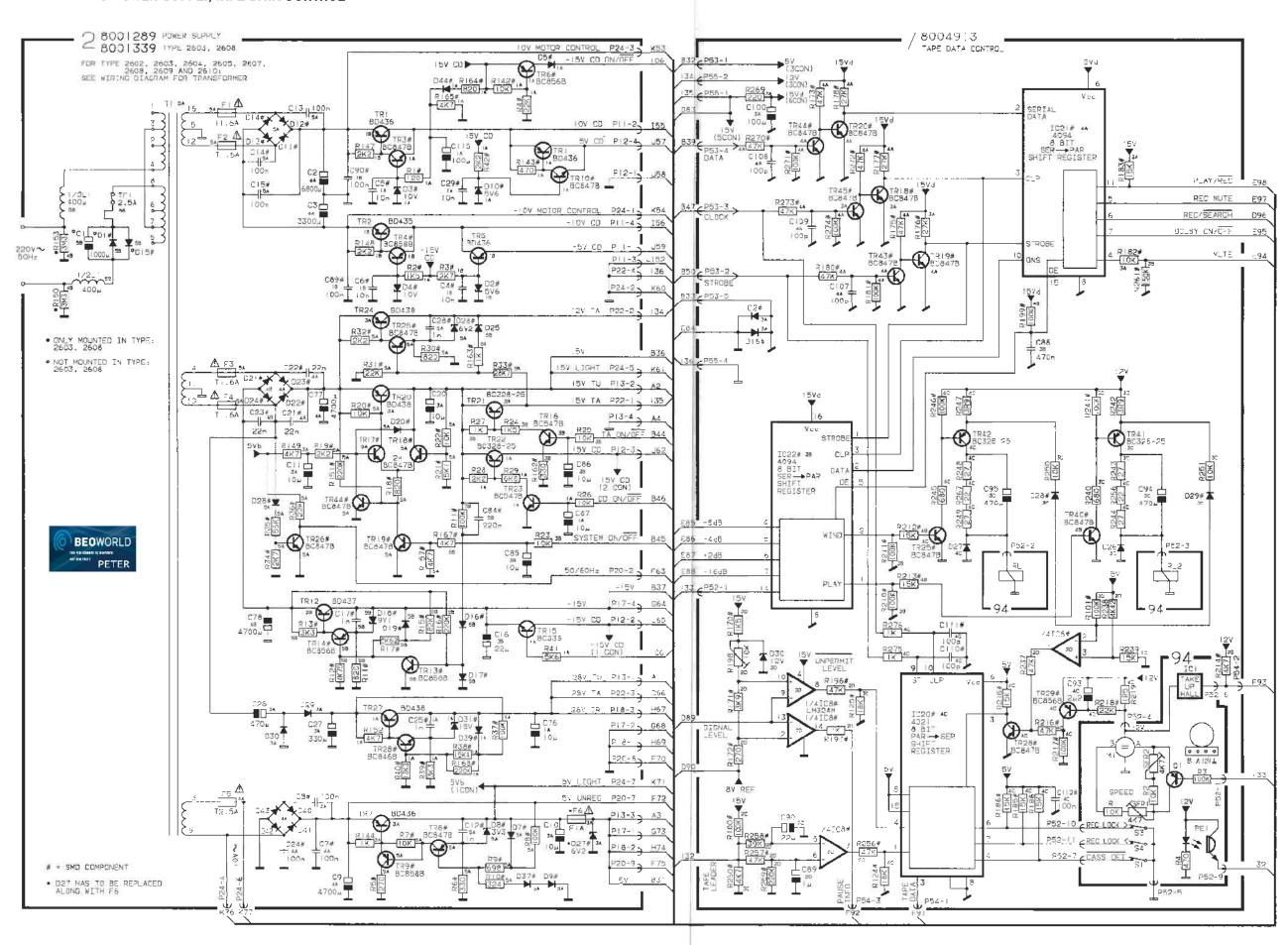
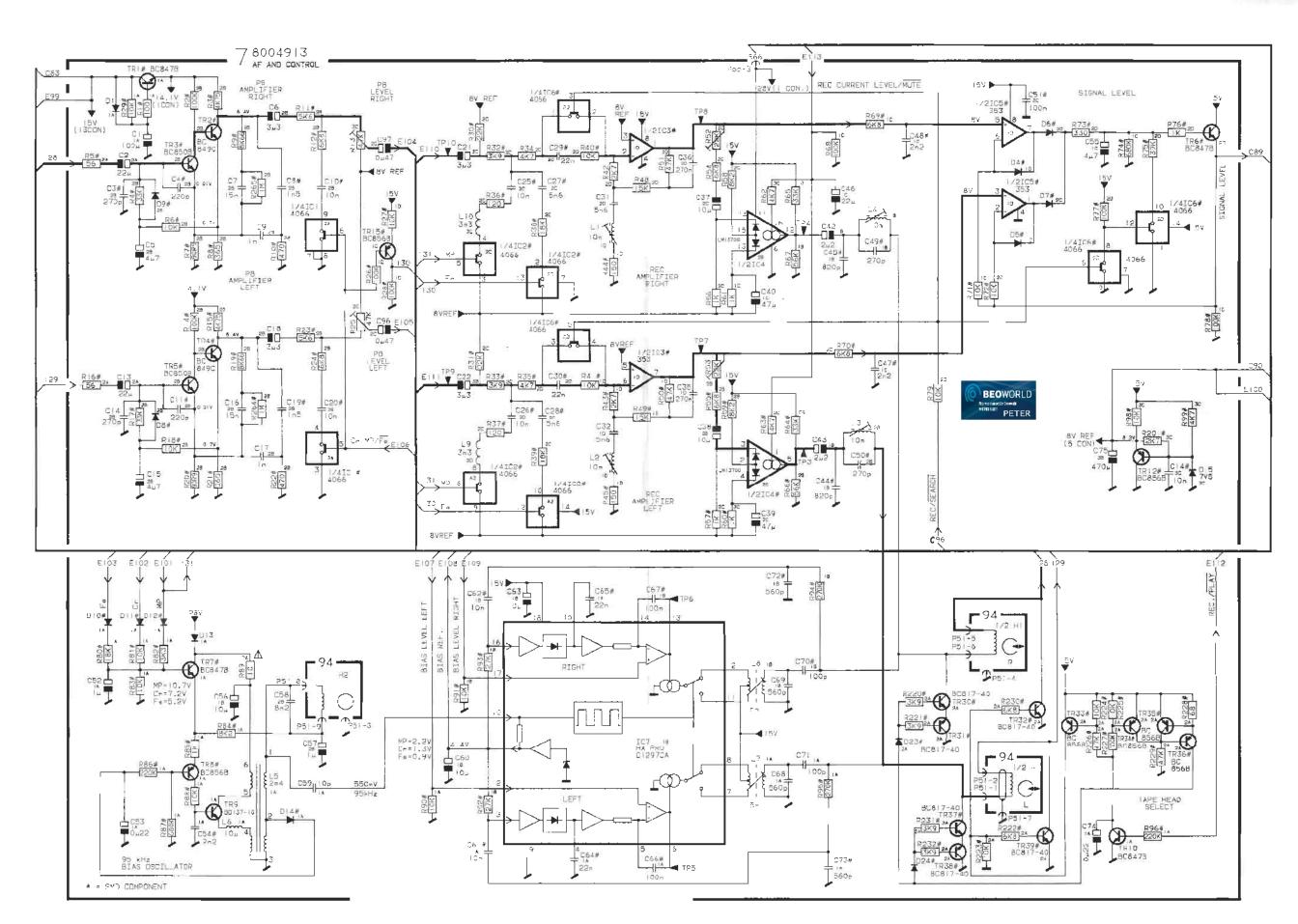


DIAGRAM D TAPE AF AND CONTROL



2-6

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DIAGRAM E DOLBY NR AND TAPE TYPE LOGIC

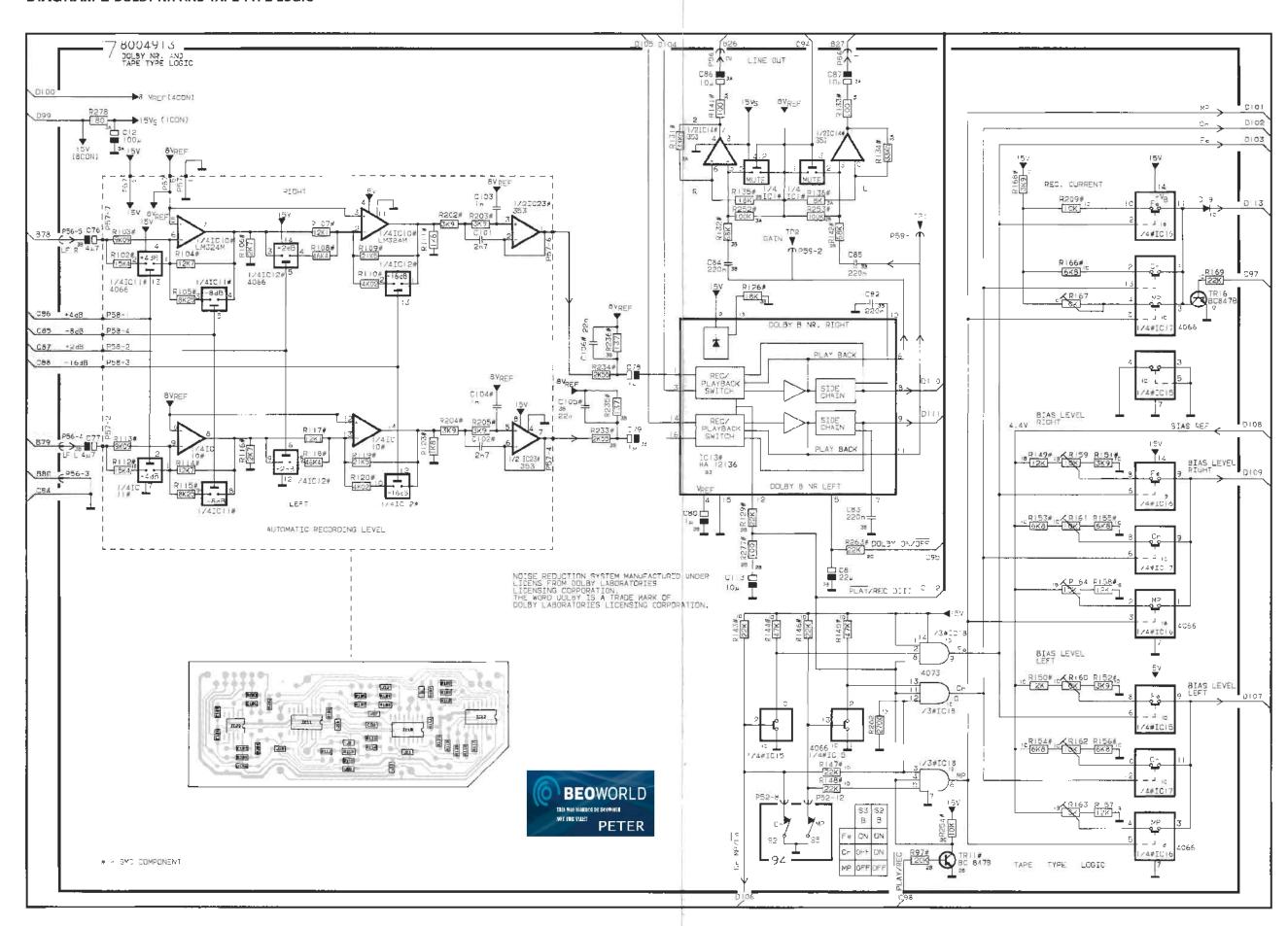


DIAGRAM F MICROCOMPUTER

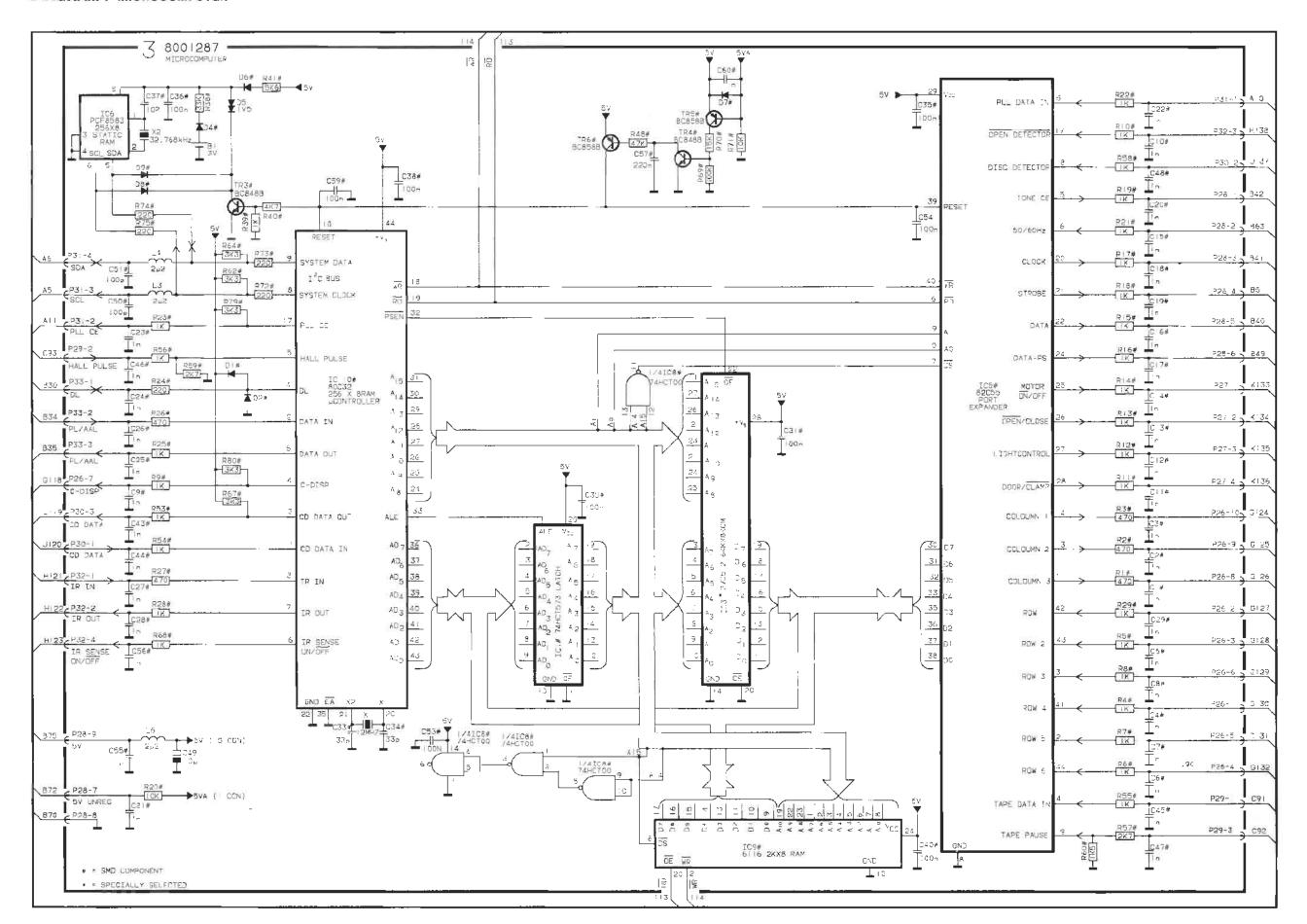


DIAGRAM G DISPLAY AND KEYBOARD

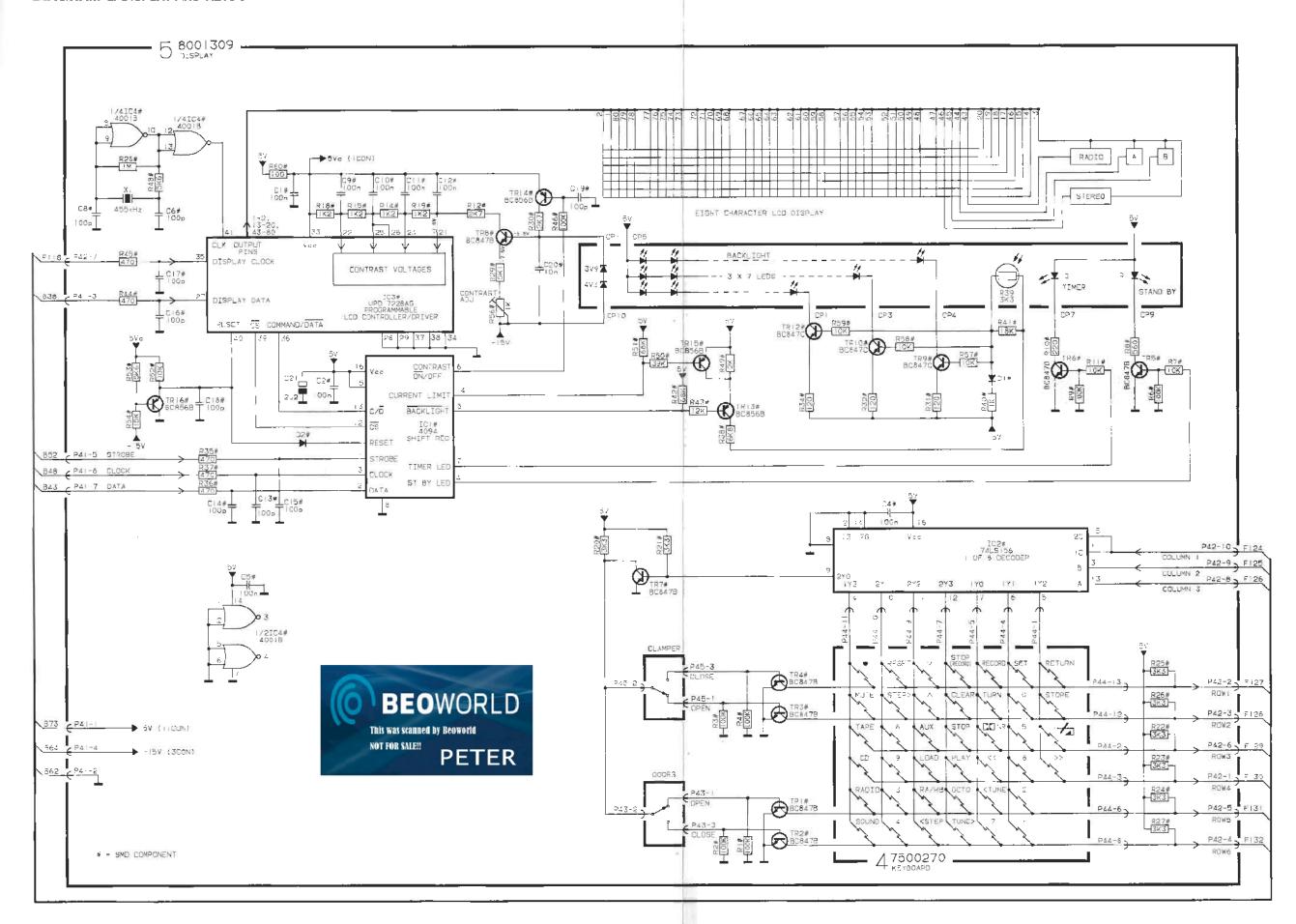


DIAGRAM H IR TRANSCEIVER AND DOOR SENSORS

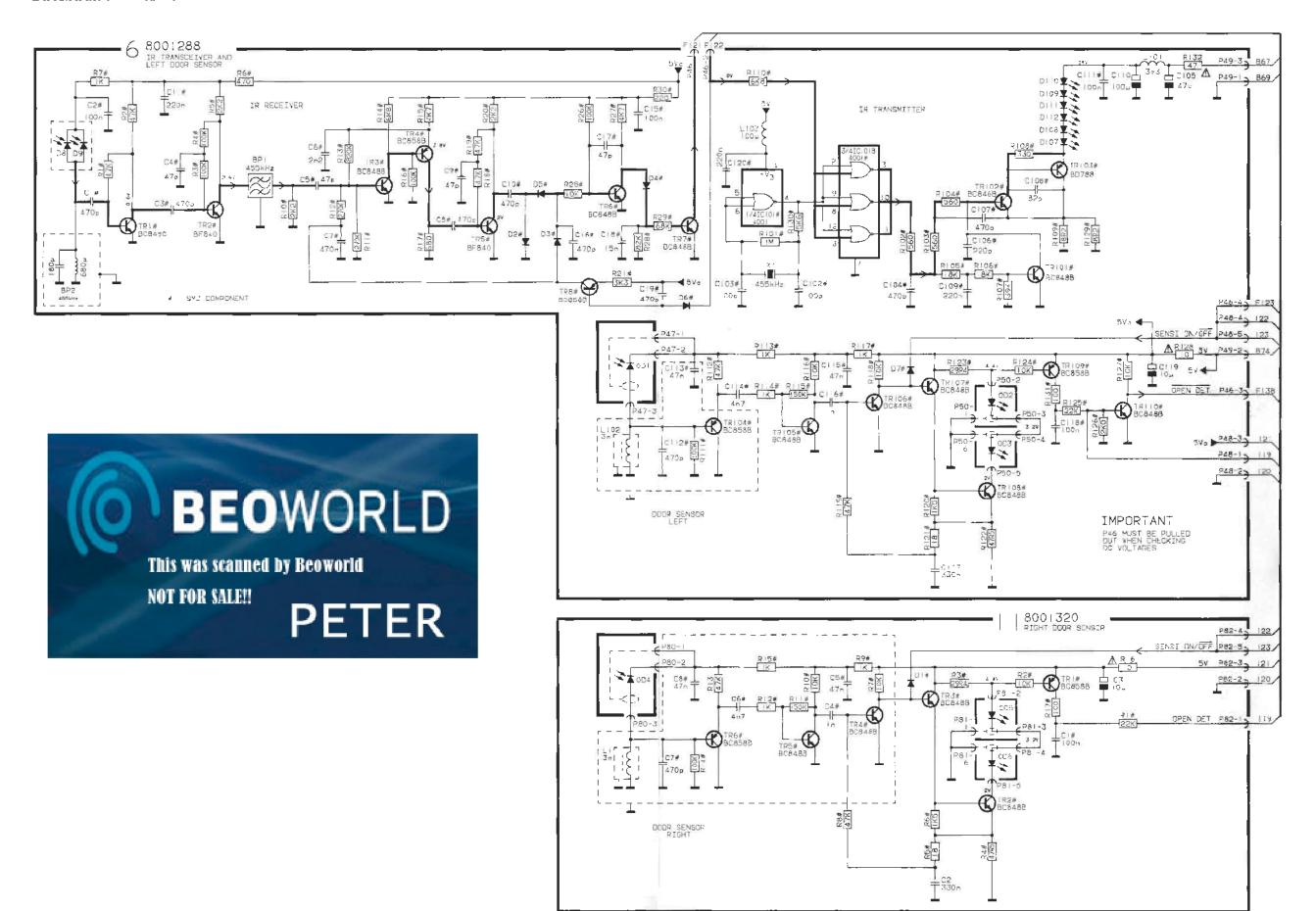


DIAGRAM I CD SERVO MOTOR SYSTEM AND DISC DETECTOR

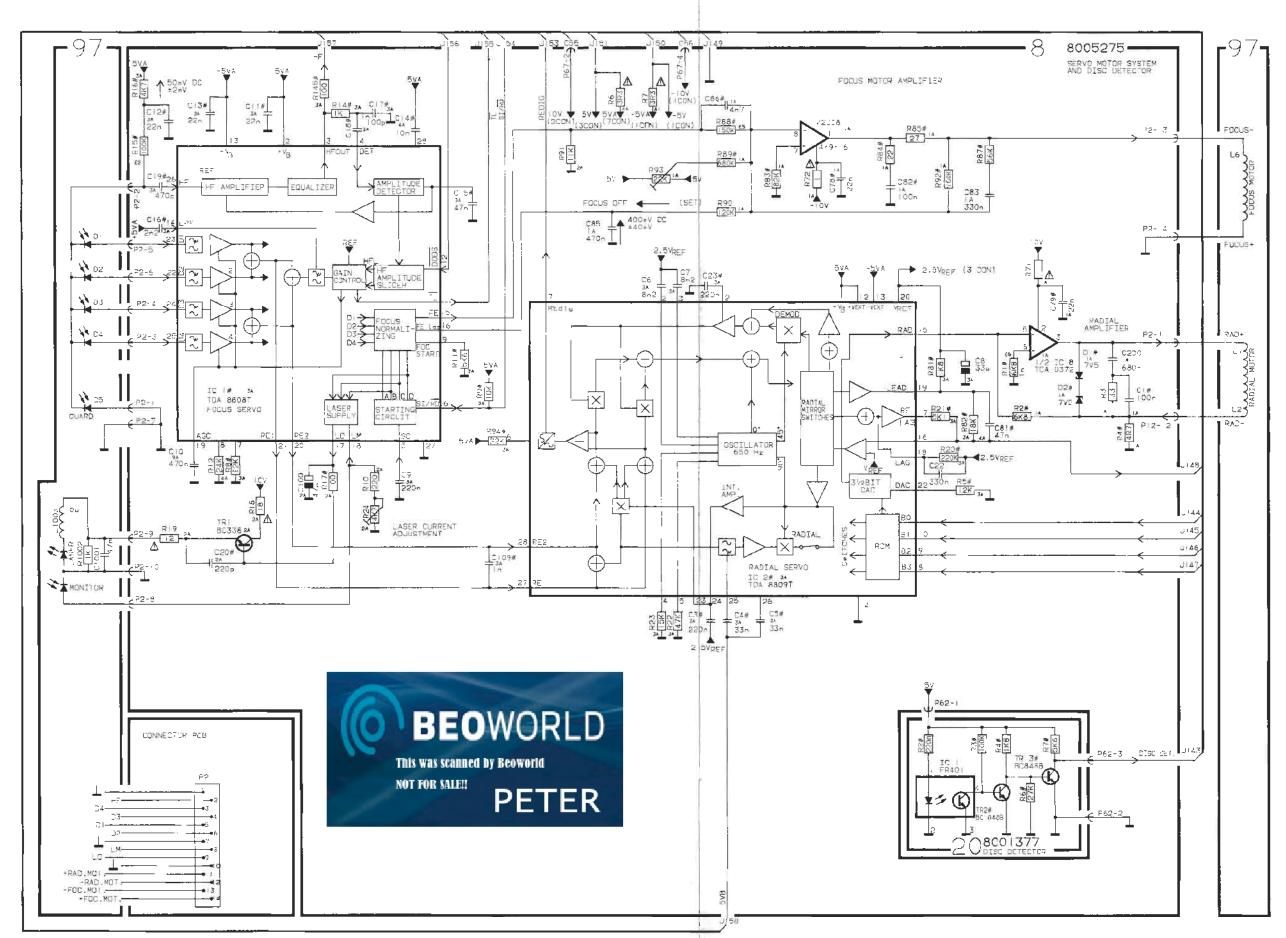


DIAGRAM J CD DECODER

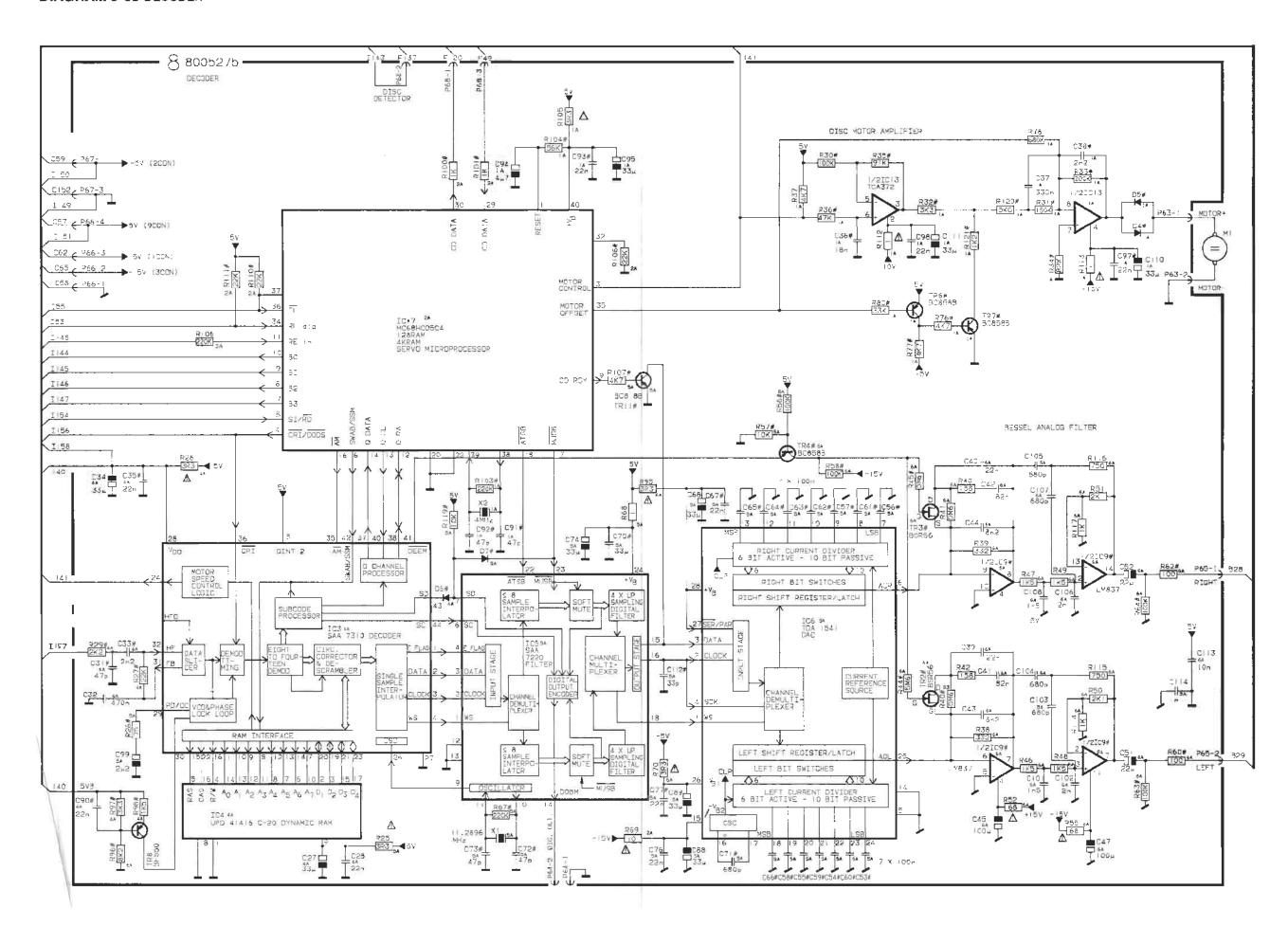


DIAGRAM K LIGHT AND MOTOR CONTROL

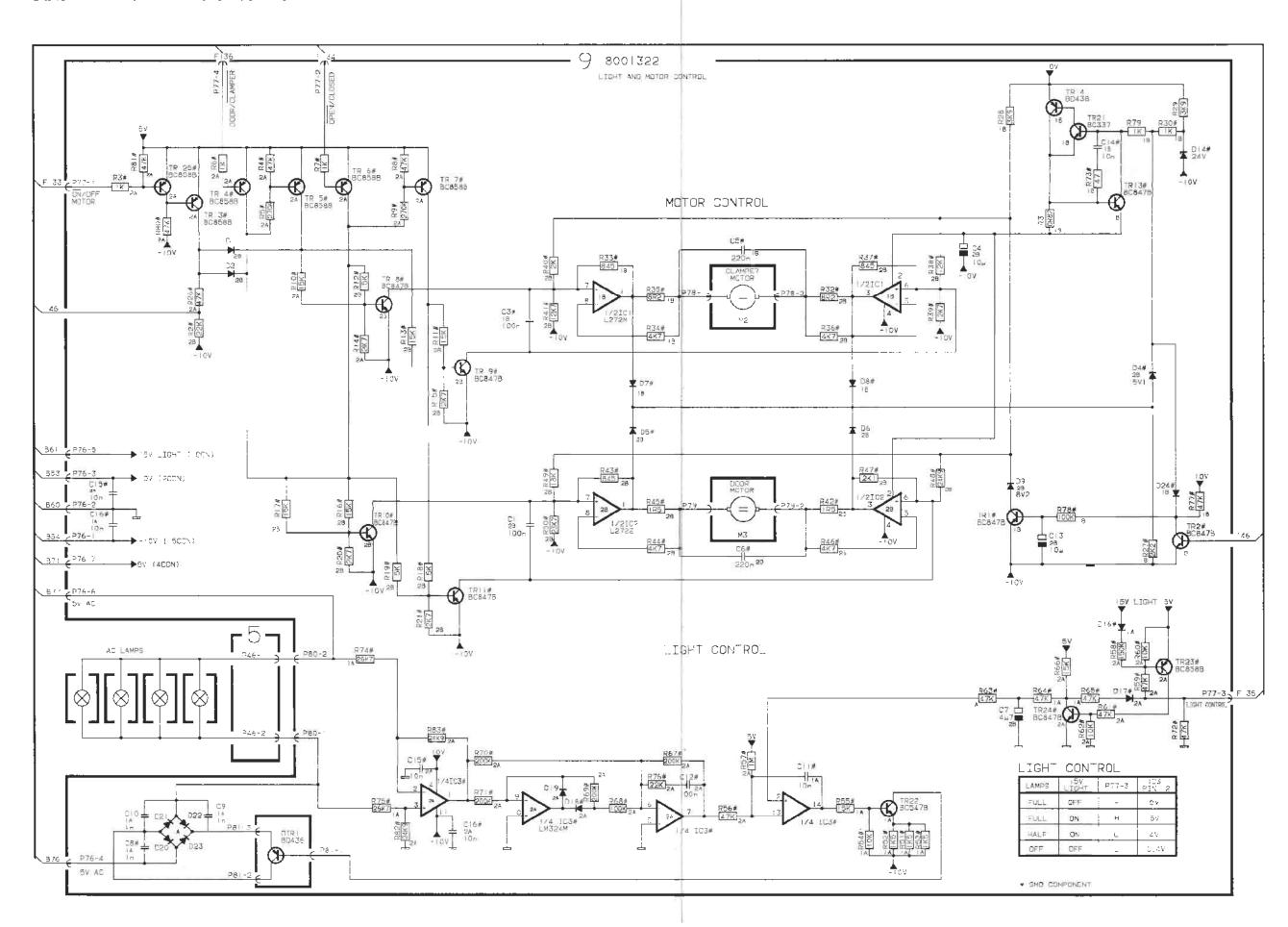
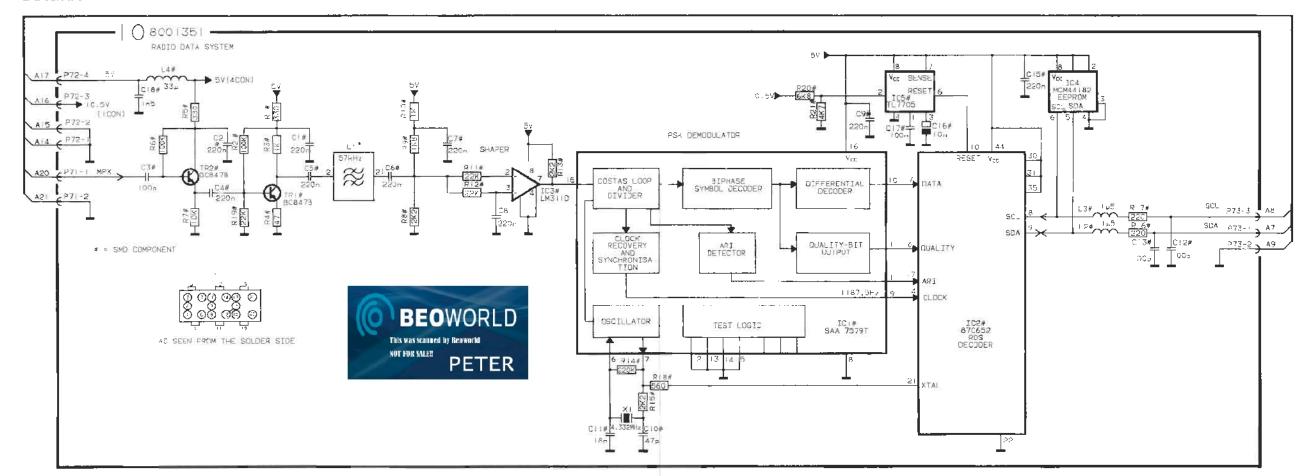


DIAGRAM L RADIO DATA SYSTEM



RADIO DATA SYSTEM (New version)

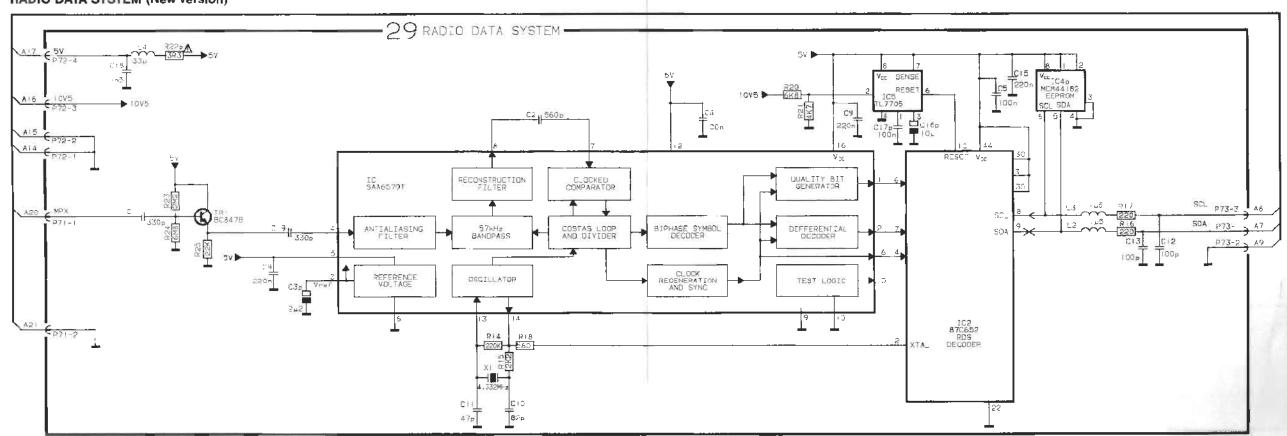
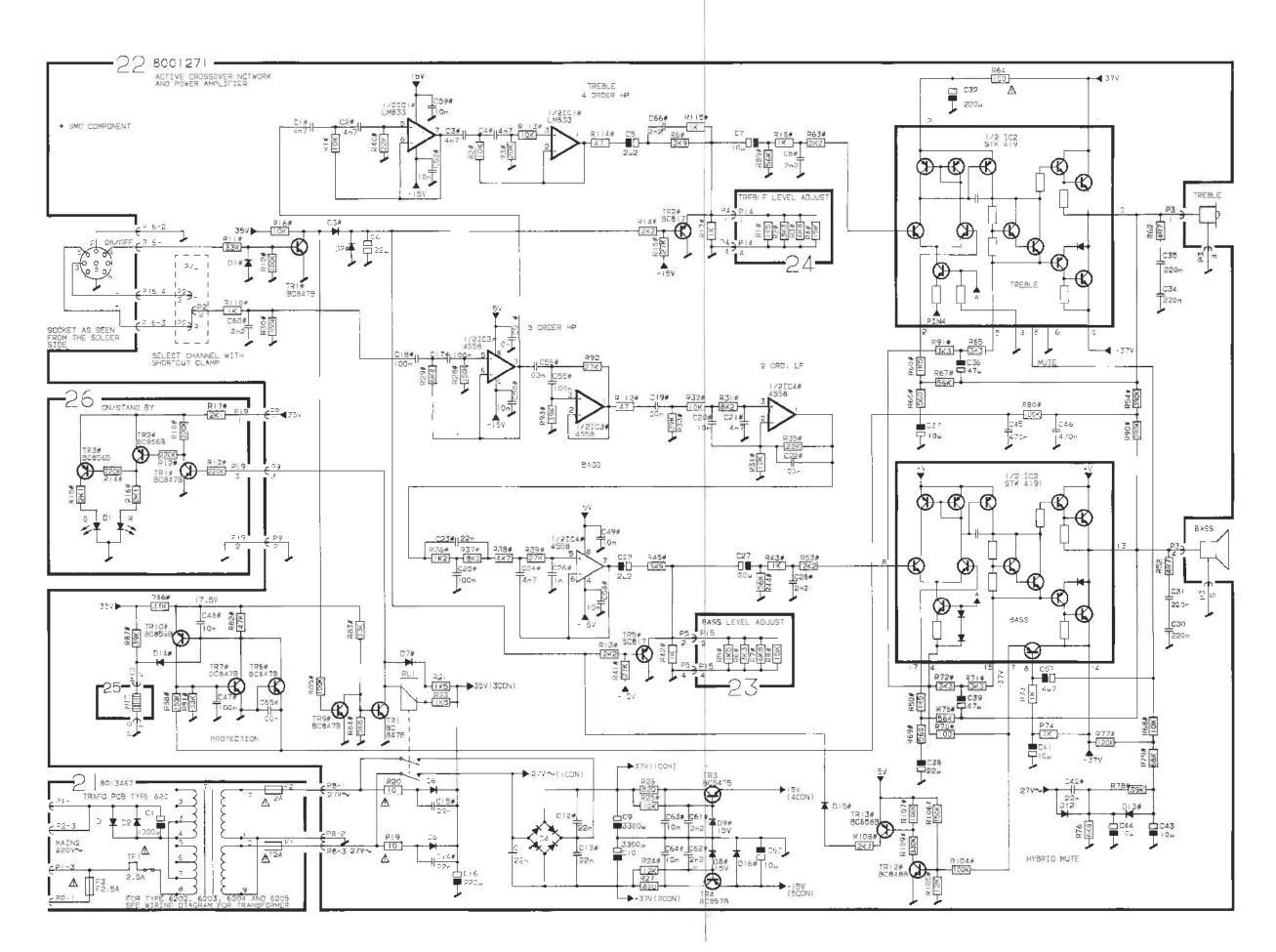
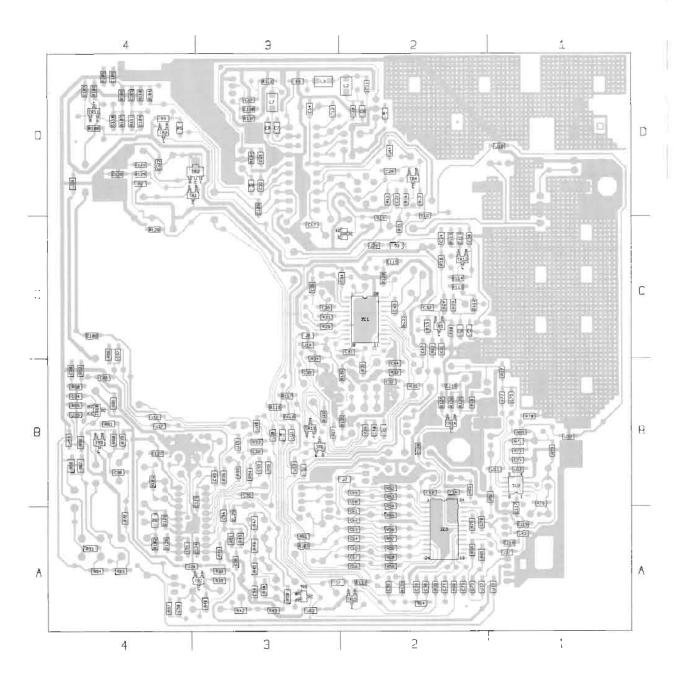


DIAGRAM M BEOLAB 2500 ACTIVE CROSSOVER NETWORK AND POWER AMPLIFIER

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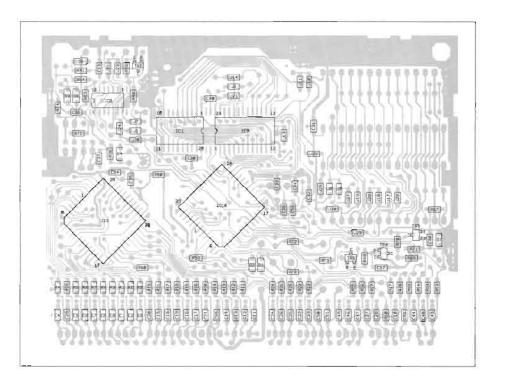


SMD Survey PCB 1, Tuner and IF System

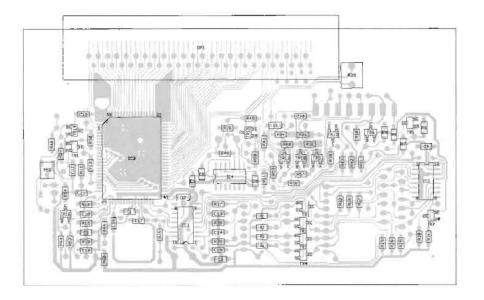




PCB 3, Microcomputer



PCB 5, Display

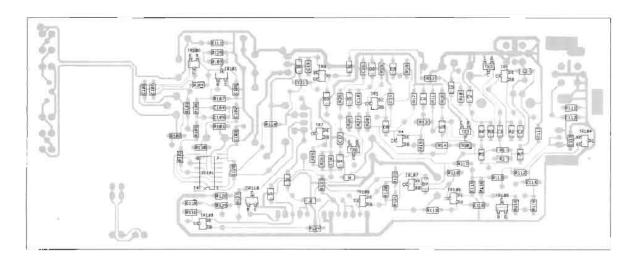


2-17

2-17

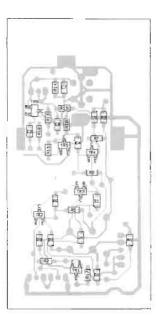
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PCB 6, IR Transceiver and left door sensor

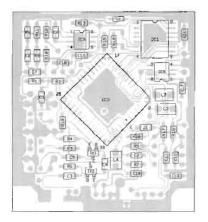




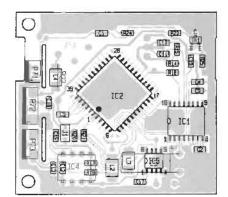
PCB 11, Right door sensor



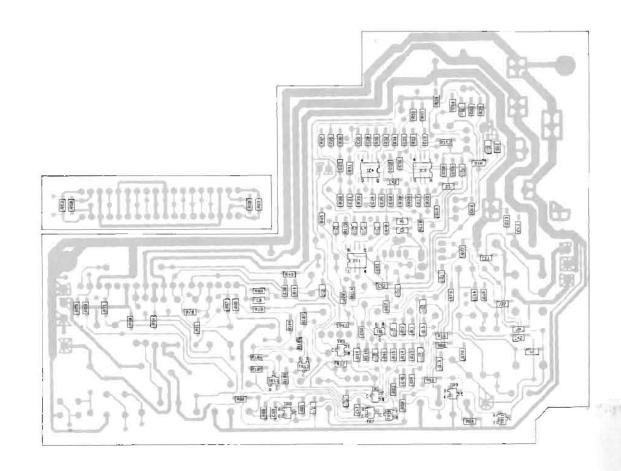
PCB 10, RDS-kit



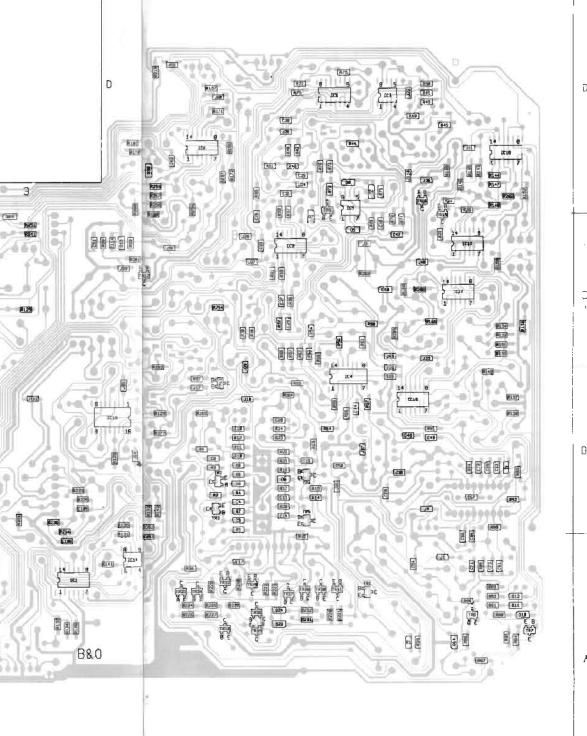
PCB 29, RDS-kit



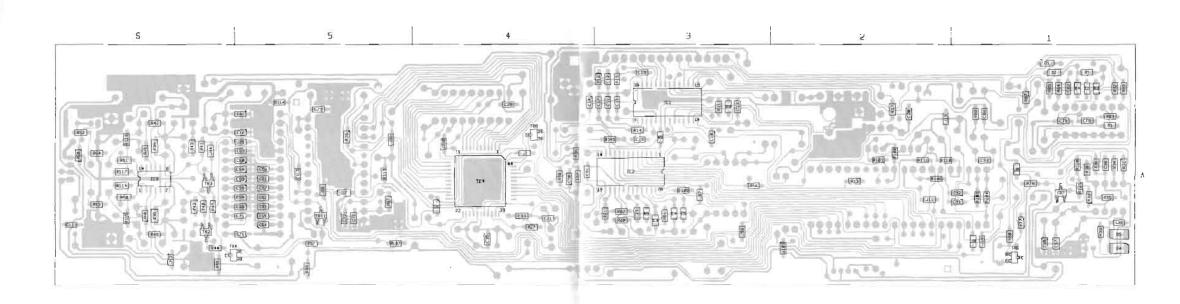
PCB 22, Beolab 2500



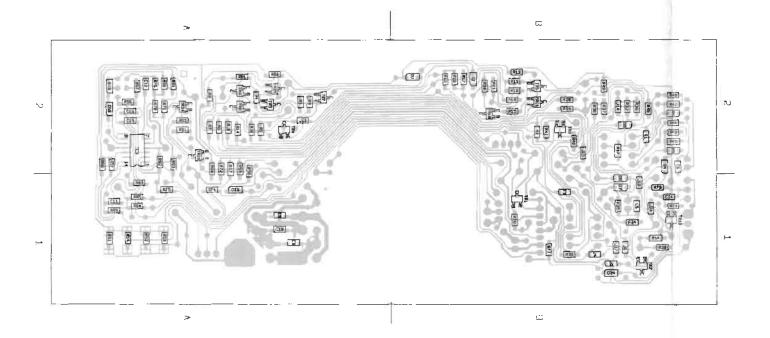




PCB 8, CD

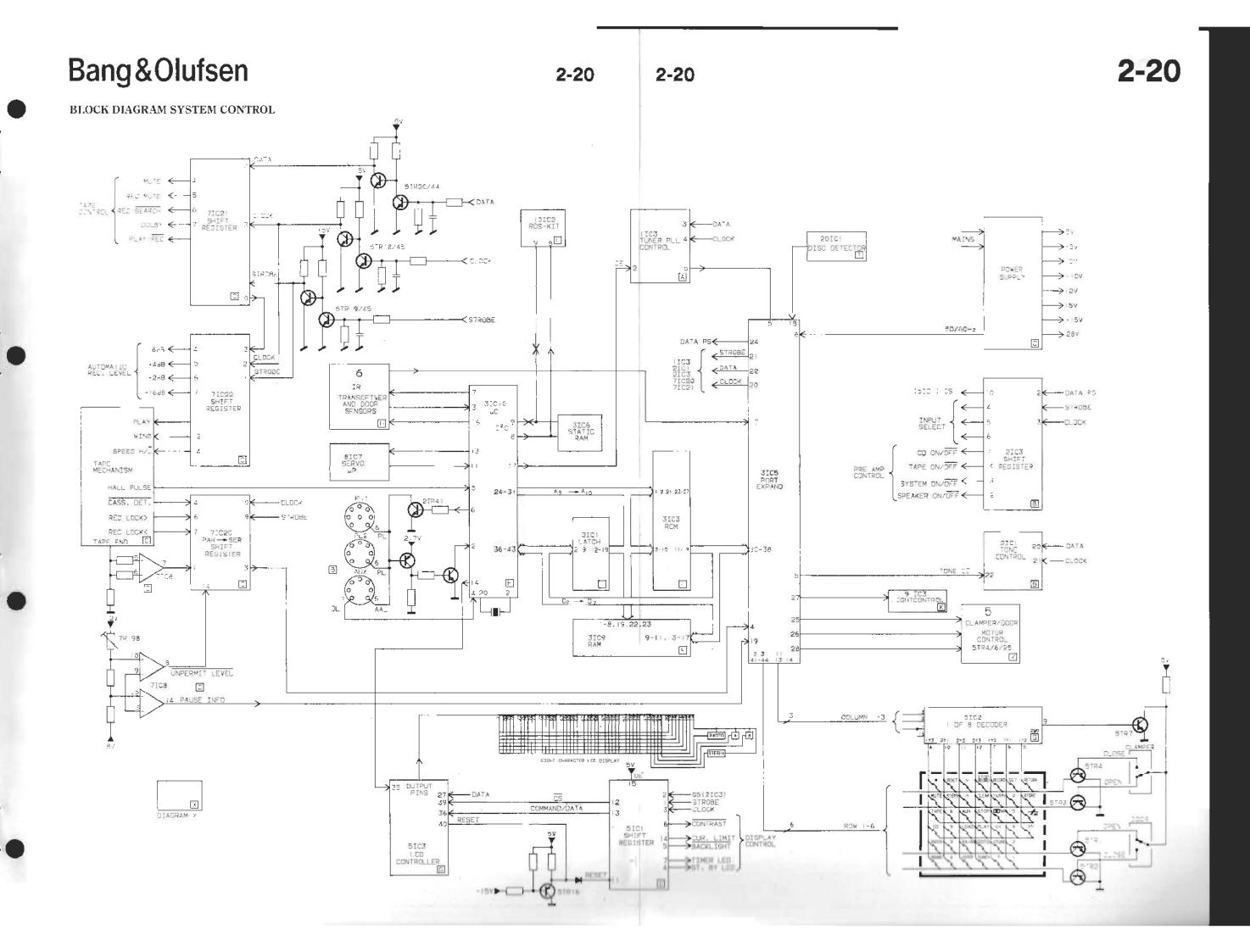


PCB 9, Light and motor control

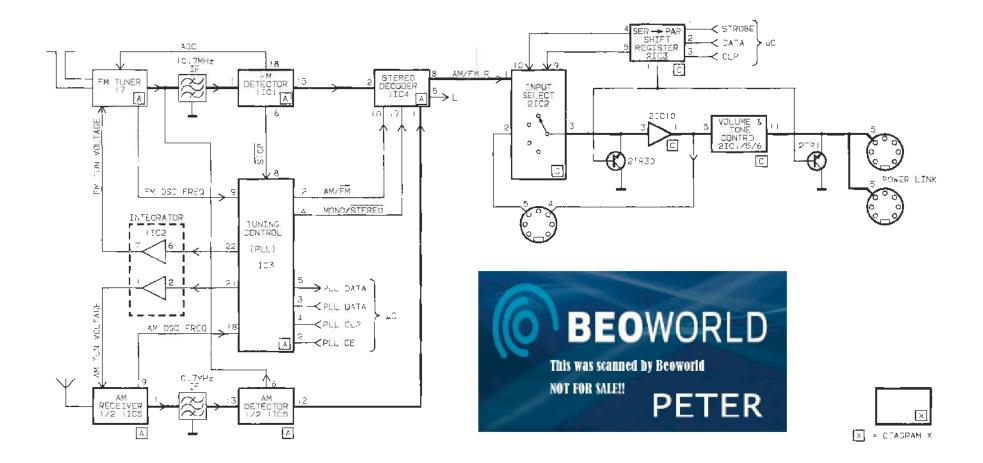


PCB 20, Disc detector

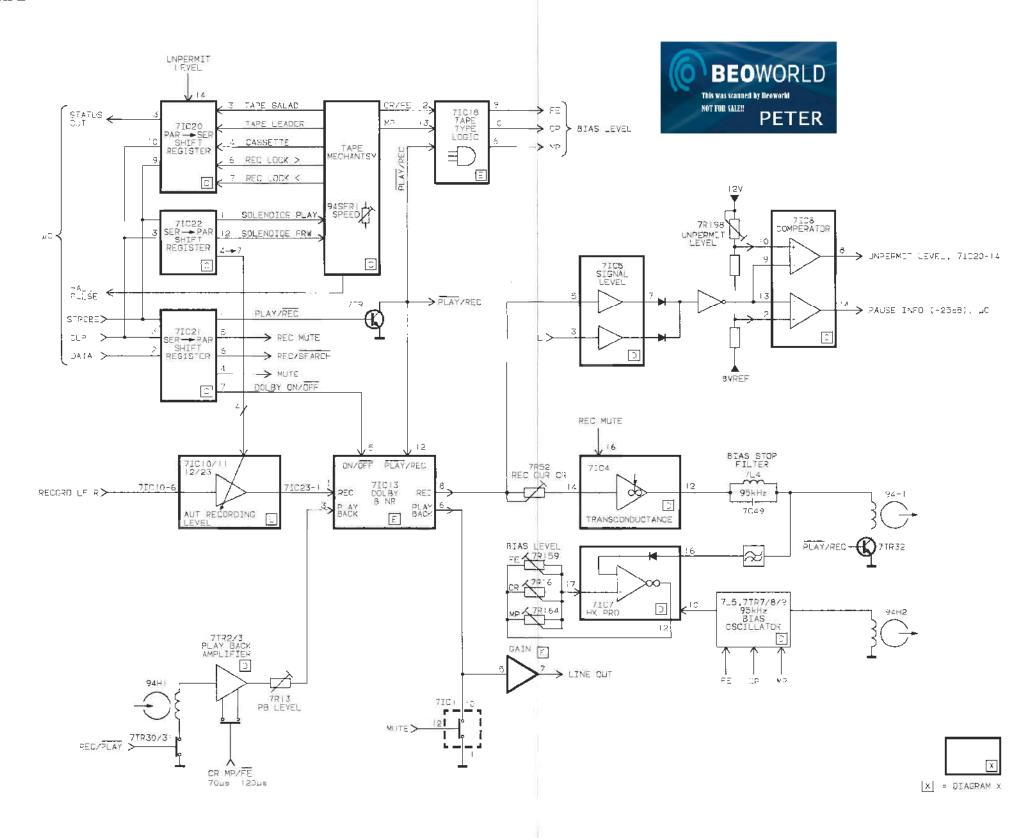




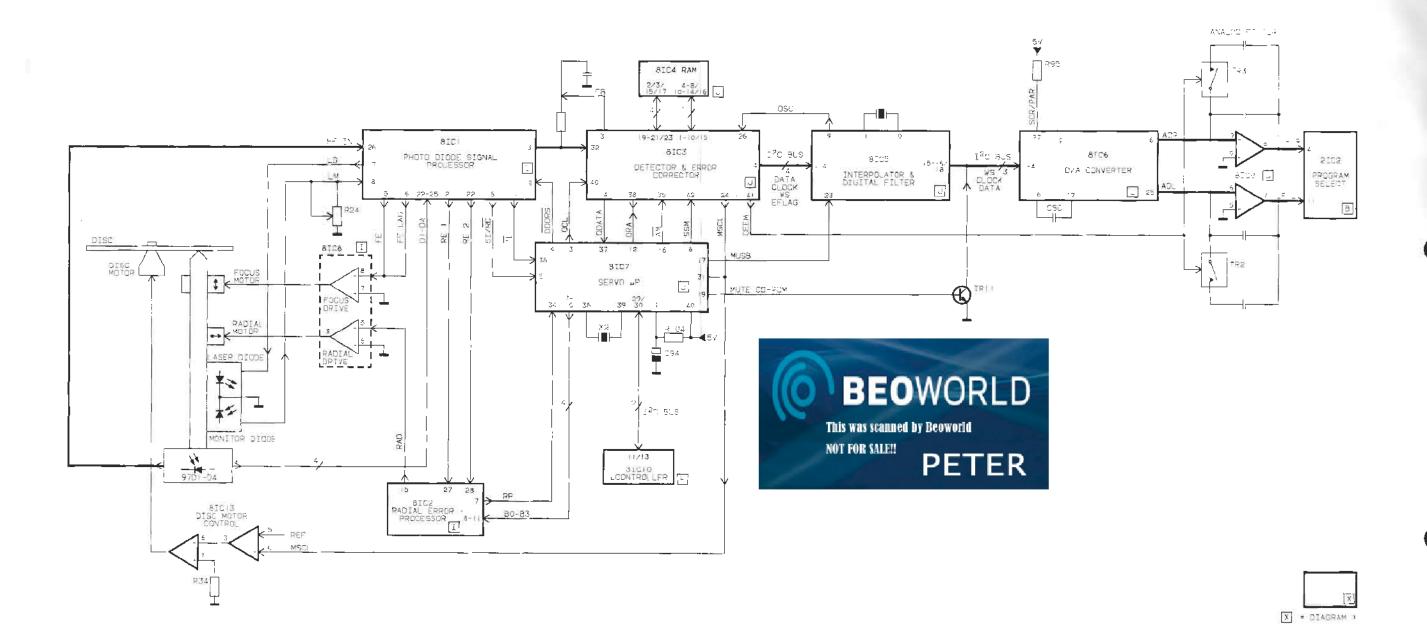
BLOCK DIAGRAM TUNER

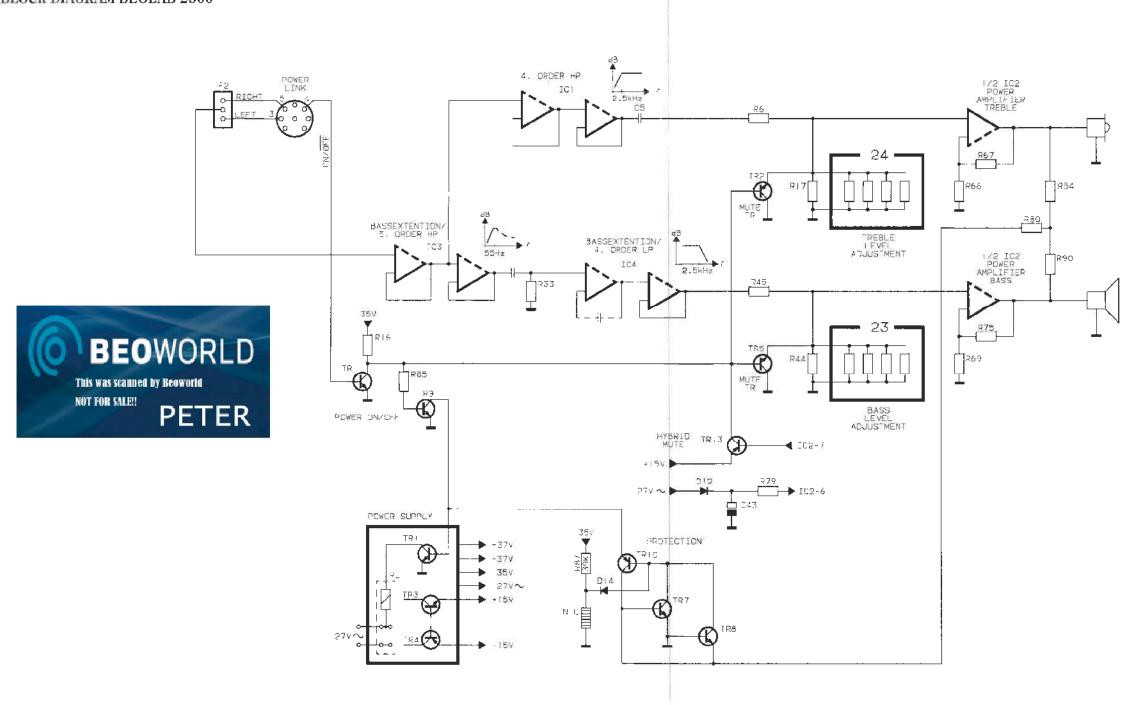


BLOCK DIAGRAM TAPE



BLOCK DIAGRAM CD

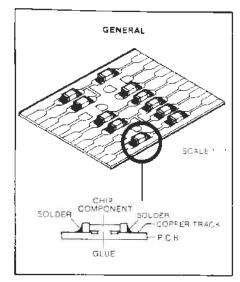


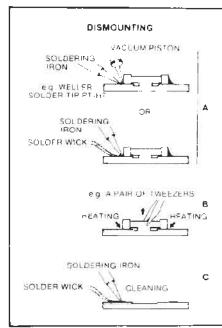


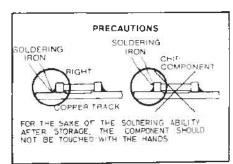
3-1 3-1

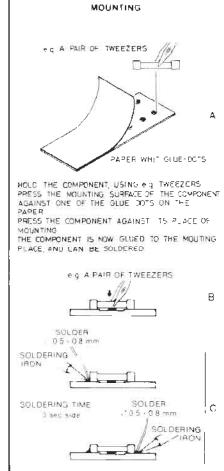
LIST OF ELECTRICAL PARTS

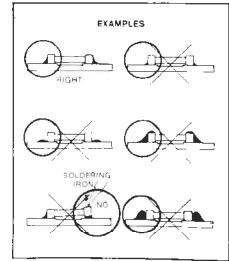
In the player chip components have been applied. For insertion and removal of chip components see the figure below.



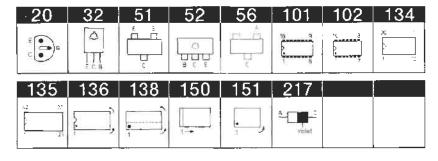








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Resistors not referred to are standard, see page 3-12

A indicates that static electricity may destroy the component.

* Specially selected or adapted sample.

TR2
TR3
TR4
TR5
TR6-
TR7
TR8
D3
D6-
-
R26
R46
R47
R50
R87
R88

PCB 01

8001413 FM/AM

8001415 FM/AM, type 2609

BEOWORLD

PETER

This was scanned by Beoworld

NOT FOR SALE!!

[Ç1∆	8340995		LM1865	$IC4\Delta$	8340758		LA3401
$IC2\Delta$	8341098		LM358	105Δ	8341410	134	TEA6200
[C3∆	8341409	151	LC7218M				
 ГК1	8320755	051	ВС847В	TR9	8320755	051	BC847B
FR2	8320723		BC868	TR10	8320747	051	BC848C
ΓR3	8320616	051	BC858B	TRII	8320755	051	BC847B
ΓR4	8320755	051	BC847B	TR12	8320740	051	
rR5	8320740	051	BF840	TR13	8320755		BC847B
ΓR6-	8320755	051	BC847B	TR14	8320740		BF840
ľR7				TR15	8320755		BC847B
ΓR8	8320747	051	BC848C	TR20	8320755	051	BC847B
D3	8300482	217	BAS 32	D7			
D6-	8300482		BAS 32	D8	8300728	056	BBY40
R26	5370402	2.2k0	2 30% 0.3W	R91	5011857	4.421	Ω 1% 1/4W
346	5011859		Ω 1% 1/4W	R100	5370382		30% 0.1W
R47	5011858		Ω 1% 1/4W	R121	5021017		5% 0.14W
R50	5011857		Ω 1% 1/4W	R130	5020727	18Ω	5% 1W
R87	5011859		:Ω 1% 1/4W	R131	5920881	22Ω	10% 0.3W
R88	5011858	7.68k	Ω 1% 1/4W				
 C2	4201090	47µF	20% 16 V	C37-	4010173	4.7nF	F 10% 50V
24	4010132		10% 50V	C38			
C5	4200625	3.3µI	20% 50V	C39	4200525		20% 10V
JS	4010173	4.7nF	10% 50 V	C40	4000287		F-20+80% 25V
07	4000219		50V	C41	4010157		10% 50V
28	4000239		5% 50 V	C42	4201090		20% 16V
C9	4000283		F 5% 5 0V	C43	4010132		10% 50V
C10	4010132		10% 50V	C44	4010157		10% 50V
C11	4000283		F 5% 50V	C46	4200512		20% 50V
C12	4000287		F 20+80% 25V	C47	4000286		F 5% 50V
013	4201090		20% 16V	C48	4200510		20% 16V
C14	4010166		F-20+80% 50V	C49	4000282		F 5% 50V iF -20+80% 25V
C15-	4201090	4, pr	20% 16V	Ç50 C51	4000287 4200515		20% 25V
C16	1000997	220-	F-20+80% 25V	C52	4100260		F 2.5% 63V
C17 C18	4000287 4010170		F 10% 50V	C53	4200515		20% 25V
C20	4010170		10% 5 0V	C54	4000281		5% 50V
C20 C21	4010132		5% 50V	C55-	4100301		2.5% 63V
C22	4010166	100n	F-20+80% 50V	C56	4100001	2.112	2.0.10.00
C23-	4010177		-20+80% 50V	C57	4100260	2.2nl	F 2.5% 63V
C24	1010111		TO 1980 30	C58	4000351		F 5% 50V
C26	4000138	33oF	5 o% 63 V	C59-	4000323		F 5% 50V
Ç27	4130306		F 10% 63V	Ç62			
C28	4000357		$F \pm 0.25 pF 50 V$	C63-	4010132	1nF	10% 50V
Ç29	4000280		5% 50V	C67			
C30	4000239		55% 50 V	C68	4000278		5% 50V
C31	4010173	-	7 10% 50V	C69	4000239	33pI	7 5% 50V
C32	4010177		F-20+80% 50V	C70	4000287	220r	ıF -20+80% 25
C34-	4010157		10% 50V	C71	4200525	22µI	7 20% 10V
C36				C72	4130379	2700	F 10% 63V

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C73	4200625	3.3nF 20% 50V	C99	4200510	10µF 20% 16V
C74	4010166	100nF -20+80% 50V	C100	4200523	0.47μF 20% 50V
C75	4010208	82nF 10% 50V	C101-	4200512	1µF 20% 50V
C76	4200625	3.3µF 20% 50V	C103	4010170	0.0-F 100/ F03/
C77- C79	4010132	1nF 10% 50V	C104- C105	4010170	2.2nF 10% 50V
C80	4000287	220nF-20+80% 25V	C106	4000287	220nF -20+80% 25V
C81	4200515	4.7µF 20% 25V	C107	4000326	
C82	4100260	2.2 nF 2.5% 63V	C108	4000287	220nF -20+80% 25V
C83	4200515	4.7µF 20% 25V	C109	4010157	10nF 10% 50V
C84 C85-	$\frac{4030281}{4100301}$	82pF 5% 50V 1pF 2.5% 63V	C110 C111	4010173	4.7nF 10% 50V 15pF 5% 63V
C86	4100001	TUP 2.0000004	C111	4010132	1nF 10% 50V
C87	4100260	2.2nF 2.5% 63V	C113	4010157	10nF 10% 50V
C88	4000351	1.5nF 5% 50V	C115	4000275	15pF 5% 50V
C89	4200129	100μF 20% 16V	C116-	4010132	lnF 10% 50V
C90 C91	4130240 4010157	47nF 10% 63V 10nF 10% 50V	C118 C119	4000351	1.5nF 5% 50V
C92-	4000286	470pF 5% 50V	C120	4000331	68pF 5% 50V
C93	1111172077	11 0 p. 2 77 0 0 7	C121-	4010166	100nF -20+80% 50V
C94	4000287	220nF -20+80% 25V	C122		
C95	40 0032 5	560pF 5% 50V	C123-	4010132	1πF 10% 50V
C96	4000287	220nF -20+80% 25V	C127	1010157	10-17 100/ E037
C97 C98	4000325 4010132	560pF 5% 50V 1nF 10% 50V	C128- C129	4010157	10nF 10% 50V
	4010152	1111 1070 304	C123		
L2	8020714	Coil 68µH 10%	L6	8020747	Coil 1mH 10%
L3	8020817	Coil 33uH	L7	8020772	Coil 10µH 20%
L4	8020803	Coil 10.7MHz	L8	8022327	Coil 10.7MHz
L5	8020802	Coil 10.7MHz	L10	8022240	Coil 19.5mH 2%
					<u> </u>
P1	7210612	Socket FM antenne	P6		
P2	7220724	Plug 2 pol	Ρ7	7220709	Plug 2 pol
P3-	7220709	Plug 2 pol	P8	7220710	Plug 3 pol
P4	POR OFFI	777	P10	7220711	Plug 4 pol
P5-	7220711	Plug 4 pol			
BP1- BP2	8030219	Crystal 10.7MHz	BP3- BP5	8030090	Ker filter 10.7MHz
X1	8090076	Crystal 3.6MHz	X2	8030087	Crystal 456 kHz
TU1	8050111 8050112	Tuner Tuner, type 2604, 2609			
IC1∆	8341040	135 LC7537			
IC2∆	0341040		TCGA	09#1099	198 18252
	8340602		IC6∆ IC7∧	8341033 8341022	138 LF353 138 4558
IC3∆	8340602 8341025	101 4052 138 4094	IC6∆ IC7∆ IC8∆	8341033 8341022 8341033	138 LF353 138 4558 138 LF353
IC3∆ IC4∧	8341025 8341033	101 4052 138 4094 138 LF353	IC7∆ IC8∆ IC9∆	8341022 8341033 8340205	138 4558 138 LF353 102 LF347
IC3∆	8341925	101 4052 138 4094	IC7∆ IC8∆	8341022 8341033	138 4558 138 LF353
IC3∆ IC4∧ IC5∆	8341025 8341033 8341022	101 4052 138 4094 138 LF353 138 4558	IC7∆ IC8∆ IC9∆ IC10∆	8341022 8341033 8340205	138 4558 138 LF353 102 LF347
IC3∆ IC4∧ IC5∆ ————————————————————————————————————	8341025 8341033 8341022 8320425	101 4052 138 4094 138 LF353 138 4558	IC7A IC8A IC9A IC10A TR22	8341022 8341033 8340205 8341033	138 4558 138 LF353 102 LF347 138 LF353
IC3△ IC4△ IC5△ ——— TR1 TR2	8341025 8341033 8341022 8320425 8320429	101 4052 138 4094 138 LF353 138 4558 032 BD436 032 BD435	IC7Δ IC8Δ IC9Δ IC10Δ TR22 TR23	8341022 8341033 8340205 8341033 8320509	138 4558 138 LF353 102 LF347 138 LF353 020 BC548B
IC3Δ IC4A IC5Δ ————————————————————————————————————	8341025 8341033 8341022 8320425 8320429 8320755	101 4052 138 4094 138 LF353 138 4558 032 BD436 032 BD435 051 BC847B	IC7Δ IC8Δ IC9Δ IC10Δ TR22 TR23 TR24	8341022 8341033 8340205 8341033 8320509 8320428	138 4558 138 LF353 102 LF347 138 LF353 020 BC548B 032 BD428
IC3△ IC4△ IC5△ ——— TR1 TR2	8341025 8341033 8341022 8320425 8320429	101 4052 138 4094 138 LF353 138 4558 032 BD436 032 BD435	IC7Δ IC8Δ IC9Δ IC10Δ TR22 TR23	8341022 8341033 8340205 8341033 8320509	138 4558 138 LF353 102 LF347 138 LF353 020 BC548B
IC3Δ IC4Δ IC5Δ TR1 TR2 TR3 TR4	8341025 8341033 8341022 8320425 8320429 8320755 8320616	101 4052 138 4094 138 LF353 138 4558 032 BD436 032 BD435 051 BC847B 051 BC858B	IC7Δ IC8Δ IC9Δ IC10Δ TR22 TR23 TR24 TR25	8341022 8341033 8340205 8341033 8320509 8320428	138 4558 138 LF353 102 LF347 138 LF353 020 BC548B 032 BD428
IC3△ IC4△ IC5△ TR1 TR2 TR3 TR4 TR5 TR6 TR7	8341025 8341033 8341022 8320425 8320429 8320755 8320425 8320425 8320425	101 4052 138 4094 138 LF353 138 4558 032 BD436 032 BD435 051 BC847B 051 BC858B 032 BD436 051 BC856 032 BD435	IC7△ IC8△ IC9△ IC10△ TR22 TR23 TR24 TR25 TR26 TR27 TR28	8341022 8341033 8340205 8341033 8320509 8320428 8320755 8320428 8320755	138 4558 138 LF353 102 LF347 138 LF353 020 BC548B 032 BD428 051 BC847B 032 BD438 051 BC847B
IC3△ IC4△ IC5△ TR1 TR2 TR3 TR4 TR5 TR6 TR7	8341025 8341033 8341022 8320425 8320429 8320755 8320616 8320425 8320753 8320425 8320755	101 4052 138 4094 138 LF353 138 4558 032 BD436 032 BD435 051 BC858B 032 BD436 051 BC858B 032 BD436 051 BC856 032 BD435 051 BC856	IC7Δ IC8Δ IC9Δ IC10Δ TR22 TR23 TR24 TR25 TR25 TR26 TR27 TR28 TR29	8341022 8341033 8340265 8341033 8320509 8320428 8320755 8320428 8320755 8320428	138 4558 138 LF353 102 LF347 138 LF353 020 BC548B 032 BD428 051 BC847B 032 BD438 051 BC847B 051 BC847B
IC3Δ IC4Δ IC5Δ TR1 TR2 TR3 TR4 TR5 TR6 TR7 TR8 TR9	8341025 8341033 8341022 8320425 8320429 8320755 8320425 8320425 8320753 8320425 8320753 8320616	101 4052 138 4094 138 LF353 138 4558 032 BD436 032 BD435 051 BC847B 051 BC858B 032 BD436 051 BC856 032 BD435 051 BC858B	IC7Δ IC8Δ IC9Δ IC10Δ TR22 TR23 TR24 TR25 TR26 TR26 TR27 TR28 TR29 TR36-	8341022 8341033 8340205 8341033 8320509 8320428 8320755 8320428 8320755	138 4558 138 LF353 102 LF347 138 LF353 020 BC548B 032 BD428 051 BC847B 032 BD438 051 BC847B
IC3△ IC4△ IC5△ TR1 TR2 TR3 TR4 TR5 TR6 TR7	8341025 8341033 8341022 8320425 8320429 8320755 8320616 8320425 8320753 8320425 8320755	101 4052 138 4094 138 LF353 138 4558 032 BD436 032 BD435 051 BC858B 032 BD436 051 BC858B 032 BD436 051 BC856 032 BD435 051 BC856	IC7Δ IC8Δ IC9Δ IC10Δ TR22 TR23 TR24 TR25 TR25 TR26 TR27 TR28 TR29	8341022 8341033 8340265 8341033 8320509 8320428 8320755 8320428 8320755 8320428	138 4558 138 LF353 102 LF347 138 LF353 020 BC548B 032 BD428 051 BC847B 032 BD438 051 BC847B 051 BC847B
IC3Δ IC4Δ IC5Δ TR1 TR2 TR3 TR4 TR5 TR6 TR7 TR8 TR9 TR10 TR11 TR12	8341025 8341033 8341022 8320425 8320429 8320755 8320425 8320753 8320425 8320753 8320425 8320753	101 4052 138 4094 138 LF353 138 4558 032 BD436 032 BD435 051 BC847B 051 BC858B 032 BD436 051 BC856 032 BD435 051 BC856 032 BD435 051 BC847B	IC7△ IC8△ IC9△ IC10△ TR22 TR23 TR24 TR25 TR26 TR27 TR28 TR29 TR30- TR31 TR32- TR31	8341022 8341033 8340205 8341033 8320509 8320428 8320755 8320428 8320755 8320616 8320759	138 4558 138 LF353 102 LF347 138 LF353 020 BC548B 032 BD428 051 BC847B 032 BD438 051 BC847B 051 BC858B 051 BC858B
IC3Δ IC4Δ IC5Δ TR1 TR2 TR3 TR4 TR5 TR6 TR7 TR8 TR9 TR10 TR11 TR12 TR13	8341025 8341033 8341022 8320425 8320429 8320755 8320616 8320755 8320755 8320755 8320425 8320425 8320425 8320427	101 4052 138 4094 138 LF353 138 4558 032 BD436 032 BD435 051 BC847B 051 BC858B 032 BD436 051 BC856 032 BD435 051 BC847B 051 BC847B 051 BC847B 051 BC858B 051 BC858B	IC7△ IC8△ IC9△ IC10△ TR22 TR23 TR24 TR25 TR26 TR27 TR28 TR29 TR30- TR31 TR32- TR33 TR34	8341022 8341033 8340205 8341033 8320509 8320428 8320755 8320616 8320759 8320616 8320755	138 4558 138 LF353 102 LF347 138 LF353 020 BC548B 032 BD428 051 BC847B 032 BD438 051 BC847B 051 BC858B 051 BC858B 051 BC858B
IC3Δ IC4Δ IC5Δ TR1 TR2 TR3 TR4 TR5 TR6 TR7 TR8 TR9 TR10 TR11 TR12 TR12 TR13 TR14	8341025 8341033 8341022 8320425 8320429 8320755 8320616 8320755 8320616 8320755 8320427 8320427 8320427 8320427	101 4052 138 4094 138 LF353 138 4558 032 BD436 032 BD435 051 BC847B 051 BC858B 032 BD436 051 BC856 032 BD435 051 BC847B 051 BC847B 051 BC847B 051 BC847B 051 BC858B 051 BC847B 032 BD436 032 BD437 051 BC858B 051 BC858B	IC7△ IC8△ IC9△ IC10△ TR22 TR23 TR24 TR25 TR26 TR27 TR28 TR29 TR30- TR31 TR32- TR33 TR34 TR35	8341022 8341033 8340205 8341033 8320509 8320428 8320755 8320616 8320759 8320616 8320755 8320616	138 4558 138 LF353 102 LF347 138 LF353 020 BC548B 032 BD428 051 BC847B 051 BC847B 051 BC858B 051 BC858B 051 BC858B
IC3Δ IC4Δ IC5Δ TR1 TR2 TR3 TR4 TR5 TR6 TR7 TR8 TR9 TR10 TR11 TR12 TR13 TR14 TR13	8341025 8341033 8341022 8320425 8320429 8320755 8320425 8320753 8320425 8320755 8320425 8320425 8320427 8320425 8320425 8320425 8320425 8320425	101 4052 138 4094 138 LF353 138 4558 032 BD436 032 BD435 051 BC858B 051 BC858B 032 BD436 032 BD436 031 BC856B 032 BD435 051 BC858B 051 BC847B 051 BC847B 051 BC858B 051 BC858B 051 BC858B 051 BC858B 052 BD436 032 BD437 051 BC858B 051 BC858B	IC7△ IC8△ IC9△ IC10△ IC10△ IR22 TR23 TR24 TR25 TR25 TR26 TR27 TR28 TR29 TR30- TR31 TR32- TR31 TR32- TR33 TR34 TR35	8341022 8341033 8340205 8341033 8320509 8320428 8320755 8320416 8320759 8320616 8320755 8320616 8320755	138 4558 138 LF353 102 LF347 138 LF353 020 BC548B 032 BD428 051 BC847B 031 BC847B 051 BC858B 051 BC858B 051 BC858B 051 BC858B
IC3Δ IC4Δ IC5Δ TR1 TR2 TR3 TR4 TR5 TR6 TR7 TR8 TR9 TR10 TR11 TR12 TR13 TR14 TR15 TR14	8341025 8341033 8341022 8320425 8320429 8320755 8320616 8320755 8320616 8320755 8320425 8320755 8320427 8320616 8320753 8320512 8320509	101 4052 138 4094 138 LF353 138 4558 032 BD436 032 BD435 051 BC858B 051 BC858B 051 BC8566 032 BD436 051 BC8566 032 BD435 051 BC858B 051 BC847B 051 BC858B 051 BC858B 051 BC858B 052 BD436 032 BD437 032 BD436 032 BD437 032 BD437 032 BD437	TR22 TR23 TR24 TR25 TR25 TR26 TR27 TR28 TR29 TR30- TR31 TR32- TR31 TR32- TR34 TR35 TR36 TR37	8341022 8341033 8340205 8341033 8320509 8320428 8320755 8320416 8320755 8320616 8320755 8320616 8320755 8320616	138 4558 138 LF353 102 LF347 138 LF353 020 BC548B 032 BD428 051 BC847B 031 BC847B 051 BC858B 051 BC858B 051 BC858B 051 BC858B 051 BC858B
IC3Δ IC4Δ IC5Δ TR1 TR2 TR3 TR4 TR5 TR6 TR7 TR8 TR9 TR10 TR11 TR12 TR13 TR14 TR13	8341025 8341033 8341022 8320425 8320429 8320755 8320425 8320753 8320425 8320755 8320425 8320425 8320427 8320425 8320425 8320425 8320425 8320425	101 4052 138 4094 138 LF353 138 4558 032 BD436 032 BD435 051 BC858B 051 BC858B 032 BD436 032 BD436 031 BC856B 032 BD435 051 BC858B 051 BC847B 051 BC847B 051 BC858B 051 BC858B 051 BC858B 051 BC858B 052 BD436 032 BD437 051 BC858B 051 BC858B	IC7△ IC8△ IC9△ IC10△ IC10△ IR22 TR23 TR24 TR25 TR25 TR26 TR27 TR28 TR29 TR30- TR31 TR32- TR31 TR32- TR33 TR34 TR35	8341022 8341033 8340205 8341033 8320509 8320428 8320755 8320416 8320759 8320616 8320755 8320616 8320755	138 4558 138 LF353 102 LF347 138 LF353 020 BC548B 032 BD428 051 BC847B 031 BC847B 051 BC858B 051 BC858B 051 BC858B 051 BC858B
IC3Δ IC4Δ IC5Δ TR1 TR2 TR3 TR4 TR5 TR6 TR7 TR8 TR9 TR10 TR11 TR12 TR13 TR14 TR13 TR14 TR15 TR16 TR17	8341025 8341033 8341022 8320425 8320429 8320755 8320616 8320755 8320616 8320755 8320425 8320755 8320427 8320616 8320753 8320512 8320509	101 4052 138 4094 138 LF353 138 4558 032 BD436 032 BD435 051 BC858B 051 BC858B 051 BC8566 032 BD436 051 BC8566 032 BD435 051 BC858B 051 BC847B 051 BC858B 051 BC858B 051 BC858B 052 BD436 032 BD437 032 BD436 032 BD437 032 BD437 032 BD437	IC7△ IC8△ IC9△ IC10△ IC10△ IR22 TR23 TR24 TR25 TR26 TR26 TR27 TR28 TR29 TR30- TR31 TR32- TR33 TR34 TR35 TR34 TR35 TR35	8341022 8341033 8340205 8341033 8320509 8320428 8320755 8320416 8320755 8320616 8320755 8320616 8320755 8320616	138 4558 138 LF353 102 LF347 138 LF353 020 BC548B 032 BD428 051 BC847B 031 BC847B 051 BC858B 051 BC858B 051 BC858B 051 BC858B 051 BC858B

PCB 02 8001289, Power Supply 8001378 – LF 28 V 8001379 – LF 15 V 8001385 – Power link

51	103	125	134	138	150	152	209
F P	<u> </u>	78 %		[3=-	•	<u>*</u>
250				!			
Å ;							

Resistors not referred to are standard, see page 3-12

 \triangle indicates that static electricity may destroy the component.

^{*} Specially selected or adapted sample.

D1	8300557	250 BYM10 100V	D25	8300482	250 4148 75V
D2	8300562		D26-	8300644	250 Z6.2V 2%
D3	8300605		D27	200220	
D4			D28	8300482	250 4148 75V
D5	8300482	250 4148 75V	D29-	8300023	209 1N4002
D7	8300606		D30		
D8	8300645		D31	8300773	250 15.0V 2%
D9	8300606	250 LL4448	D32-	8300723	250 Z8.2V 2%
D10	8300562	250 Z5.6V 2%	D33		
D11-	8300557	250 BYM10 100V	D35	8300520	250 Z6.8V 5%
D15			D36	8300482	
D16-	8300482	250 4148 75V	D37	8300606	
D17		NO NOTIFICATION OF	D38	8300520	
D18	8300762		D39	8300606	
D19-	8300482	250 4148 75V	D40-	8300023	209 1N4002
D20	AMAZER SE		D43		
D21- D24	8300557	250 BYM10 100V	D44	8300482	250 BAS 32
	5011000	CORPORATOR A VOIDE	D.40	5011005	19.01-0 1991
R9 R10	5011982	698Ω 1% 1/8W 324Ω 1% 1/8W	R40	5011985	13.3kΩ 1% 1/8W
R12	5011983 5011792	324Ω 1% 1/8W 4.75kΩ 1% 1/8W	R120 R126	5011557 5011557	10kΩ 1% 1/8W 10kΩ 1% 1/8W
R17	5011792	5.62kΩ 1% 1/8W	R150	5000194	3.3MΩ 10% 1/2W.
R21	5011914	5.1kΩ 1% 1/8W	KINO	5000154	only type
R22	5011557	10kΩ 1% 1/8W			2603, 2608
R31	5011988	22kΩ 1% 1/8W	R153	5000194	3.3MΩ 10% 1/2W.
R33	5011987	28.7kΩ 1% 1/8W	11170	0000134	only type
R38	5011986	15.4kΩ 1% 1/8W			2603, 2608
C1	4200821	1000µF -20+50%	C30-	4130311	680nF 10% 63V
		6.3V	C31		
C2	4201111	6800µF 20% 16V	C32-	4200524	10µF 20% 25V
C3	4200991	3300µF 20% 16V	C33		
C4-	4010176	10nF -20+80% 50V	C34-	4000286	470pF 5% 50V
C6		AND THE RESIDENCE OF THE PARTY	C35		
C7- C8	4010166	100nF -20+80% 50V	C36- C37	4010220	100nF 10% 50V
C9	4200992	4700µF 20% 16V	C38	4010195	2.7nF 5% 50V
C10-	4200510	10µF 20% 16V	C39	4200524	10µF 20% 25V
C11	Control of the Contro		C40	4200512	1µF 20% 50V
C12	4010132	1nF 10% 50V	C41	4200524	10µF 20% 25V
C13-	4010166	100nF -20+80% 50V	C42	4200512	1µF 20% 50V
C15	1000100	00 P 00// 0 PM	C43-	4000234	47pF 5% 50V
C16	4200488	22µF 20% 25V	C45	9500000	
C17-	4010132	InF 10% 50V	C46	4000286	
C19	, noo=n,	10 E 000 0EM	C47		10µF 20% 25V
C20	4200524	10µF 20% 25V	C48	4000229	150pF 5% 50V
C21- C23	4010216	22nF 10% 100V	C49- C52	4010166	100nF -20+80% 50V
C24	4010166	100nF -20+80% 50V	C53	4010157	10nF 10% 50V
C25	4010132	1nF 10% 50V	C54	4130234	470nF 10% 63V
C26	4200993	470µF 20% 50V	C55-	4010220	100nF 10% 50V
C27	4201105	330µF 20% 63V	C56		
C28	4010132	1nF 10% 50V	C57	4200524	10µF 20% 25V
C29	4010176	10nF -20+80% 50V	C58	4010195	2.7nF 5% 50 V

Bang & Olufsen

3-4

259	4200512	1µF 20% 50V	C77-	4201098	4700µF 20% 35V
260	4200524	10µF 20% 25V	C78		
261	4200512	1µF 20% 50V	C79-	4010105	1nF 10% 50V
762	4000286	470pF 5% 50V	C80		
063	4000229	150pF 5% 50V	C81	4200510	10µF 20% 16V
364	4200524	10gF 20% 25V	C84	4000287	220nF -20+80% 25V
365-	4000233	220pF 5% 50V	C85-	4200510	10μF 20% 16V
166		10	C87		
C67	4010196	1.8nF 5% 50V	C89-	4010166	100nF -20~80% 50V
268-	4000233	220pF 5% 50V	C90		
269			C91-	4010157	10πF 10% 50V
070	4010196	1.8nF 5% 50V	C104		
271-	4000233	220pF 5% 50V	C105-	4000204	100pF 5% 63V
272		The Parisher Parish	C106		
273-	4200510	10µF 20% 16V	C107	4000241	100pF 5% 50V
274		January Company	C108	4010166	100nF 20+80% 50V
275	4200523	0.47µF 20% 50V	C109-	4010157	10nF 10% 50V
276	4200561	10µF 20% 50V	C110		
F1-	6600065	1.6A 250V	F6	6604009	
F4			TF1	6609040	2.5A Termo
F5	6600067	2.5A 250V			
	1000				
L1	8022296	Coil 2x0.4mH			
	0022530	CONT ZAO, HIBIT			
P11-	7220711	Plug 4 pol	P21	7220709	Plug 2 pol
P13	==	155 (5	P22	7220711	Plug 4 pol .
P14-	7220709	Plug 2 pol	P23	7220710	Plug 3 pol
P15		155	P24	7220714	Plug 7 pol
P16	7220712	Plug 5 pol	P25-	7220711	Plug 4 pol
P17	7220714	Plug 7 pol	P26		
P18	7220710	Plug 3 pol	P100	7210418	Socket 7 pol
P19	7220712	Plug 5 pol	P101-	7210689	Plag 8 pol
P20	7220716	Plug 9 pol	P102		
CP1	7220564	Plug pin 1 pol			
Т1	8013457	Transformer			
1014	0241017	134 74HCT573	IC8∆	8341419	150 74HCT00
IC1A	8341217		IC9∆	\$341276	138 6116
IC3*∆	8341481	125 27C512	IC10Δ	8341218	152 80C32
		1 52 82C55A	10.1022	0041710	132 80032
IC5∆	8341437				
IC6∆		103 PCF8583			
		103 PCF8583	—		
	8341105	051 BC848B	TR5-	8320616	051 BC858B
IC6∆ ———	8341105		TR5- TR6	8320616	051 BC858B
IC6∆ ——— TR3-	8341105			8320616	U51 BC858B
IC6∆ ——— TR3- TR4	8341105 	051 BC848B	TR6		
TR3- TR4 ———	8341105 		TR6 — – – D5	8300056	209 1.5V 10%
TR3- TR4 D1- D2	8341105 8320615 8300482	051 BC848B 250 4148	TR6 — — — D5 D6-	8300056	
TR3- TR4 ———	8341105 8320615 8300482	051 BC848B	TR6 — – – D5	8300056	209 1.5V 10%
TR3- TR4 D1- D2	8341105 8320615 8300482	051 BC848B 250 4148	TR6 — — — D5 D6-	8300056 8300482	209 1.5V 10% 250 4148
TR3- TR4 D1- D2	8341105 8320615 8300482 8300482	051 BC848B 250 4148	TR6 — — — D5 D6-	8300056 8300482	209 1.5V 10%
TR3- TR4- D1- D2- D4-	8341105 8320615 8300482 8300482	051 BC848B 250 4148 250 4148	D5 D6- D9	8300056 8300482 4010132	209 1.5V 10% 250 4148
TR3- TR4 ————————————————————————————————————	8341105 8320615 8300482 8300482	051 BC848B 250 4148 250 4148 InF 10% 50V	D5 D6- D9 C43-	8300056 8300482 4010132 4200431	209 1.5V 10% 250 4148 1nF 10% 50V 10µF 20% 16V
TR3- TR4 — D1- D2 D4 — C1- C29	8341105 8320615 8300482 8300482 4010132	051 BC848B 250 4148 250 4148 InF 10% 50V	TR6 D5 D6- D9 C43- C48	8300056 8300482 4010132 4200431	209 1.5V 10% 250 4148
TR3- TR4 D1- D2 D4 C1- C29 C30-	8341105 8320615 8300482 8300482 4010132	051 BC848B 250 4148 250 4148 InF 10% 50V 100πF -20-80% 50V	TR6 D5 D6- D9 C43- C48 C49	8300056 8300482 4010132 4200431	209 1.5V 10% 250 4148 1nF 10% 50V 10µF 20% 16V 100pF 5% 50V
TR3- TR4 D1- D2 D4 C1- C29 C30- C32	8341105 8320615 8300482 8300482 4010132 4010166	051 BC848B 250 4148 250 4148 InF 10% 50V 100nF -20-80% 50V	TR6 D5 D6- D9 C43- C48 C49 C50- C51 C53-	8300056 8300482 4010132 4200431	209 1.5V 10% 250 4148 1nF 10% 50V 10µF 20% 16V 100pF 5% 50V
TR3- TR4 D1- D2 D4 C1- C29 C30- C32 C33-	8341105 8320615 8300482 8300482 4010132 4010166	051 BC848B 250 4148 250 4148 InF 10% 50V 100nF -20-80% 50V 33pF 5% 50V	TR6 D5 D6- D9 C43- C48 C49 C50- C51 C53-	8300056 8300482 4010132 4200431 4000241	209 1.5V 10% 250 4148 1nF 10% 50V 10µF 20% 16V 100pF 6% 50V 100nF -20+80% 25V
TR3- TR4 D1- D2 D4 C1- C29 C30- C30- C32 C33- C34	8341105 8320615 8300482 8300482 4010132 4010166 4000361 4010166	051 BC848B 250 4148 250 4148 1nF 10% 50V 100nF -20-80% 50V 33pF 5% 50V 100nF -20+80% 50V	TR6 D5 D6- D9 C43- C48 C49 C50- C51 C53-	8300056 8300482 4010132 4200431 4000241	209 1.5V 10% 250 4148 1nF 10% 50V 10µF 20% 16V 100pF 5% 50V 100nF -20+80% 25V
TR3- TR4 D1- D2 D4 C1- C29 C30- C32 C33- C34 C35- C36	8341105 8320615 8300482 8300482 4010132 4010166 4000361 4010166	051 BC848B 250 4148 250 4148 1nF 10% 50V 100nF -20-80% 50V 33pF 5% 50V 100nF -20+80% 50V	TR6 D5 D6- D9 C43- C48 C49 C50- C51 C53- C54	8300056 8300482 4010132 4200431 4000241 4010166	209 1.5V 10% 250 4148 1nF 10% 50V 10µF 20% 16V 100pF 5% 50V 100nF -20+80% 25V
TR3- TR4 D1- D2 D4 C1- C29 C30- C32 C33- C34 C35-	8341105 8320615 8300482 8300482 4010132 4010166 4000361 4010166 4000219 4010166	051 BC848B 250 4148 250 4148 1nF 10% 50V 100nF -20-80% 50V 100nF -20+80% 50V 10pF 0.5pF 50V 100nF -20+80% 50V	TR6 D5 D6- D9 C43- C48 C49 C50- C51 C53- C54 C55 C36 C57	8300056 8300482 4010132 4200431 4000241 4010166 4010132 4000287	209 1.5V 10% 250 4148 1αF 10% 50V 10μF 20% 16V 100μF 5% 50V 100ηF -20+80% 25V 1nF 10% 50V 220ηF -20+80% 25V
TR3- TR4 D1- D2 D4 C1- C29 C30- C32 C33- C34 C35- C36 C37	8341105 8320615 8300482 8300482 4010132 4010166 4000361 4010166 4000219 4010166	051 BC848B 250 4148 250 4148 1nF 10% 50V 100nF -20-80% 50V 33pF 5% 50V 100nF -20+80% 50V 10pF 0.5pF 50V	TR6 D5 D6- D9 C43- C48 C49 C50- C51 C53- C54 C55 C36 C57	8300056 8300482 4010132 4200431 4000241 4010166 4010132 4000287	209 1.5V 10% 250 4148 1nF 10% 50V 10µF 20% 16V 100pF 5% 50V 100nF -20+80% 25V 1nF 10% 50V 220nF -20+80% 25V
TR3- TR4 D1- D2 D4 C1- C29 C30- C32- C34 C35- C36 C37 C38	8341105 8320615 8300482 8300482 4010132 4010166 4000361 4010166 4000219 4010166	051 BC848B 250 4148 250 4148 1nF 10% 50V 100nF -20-80% 50V 100nF -20+80% 50V 10pF 0.5pF 50V 100nF -20+80% 50V	TR6 D5 D6- D9 C43- C48 C49 C50- C51 C53- C54 C55 C36 C57	8300056 8300482 4010132 4200431 4000241 4010166 4010132 4000287	209 1.5V 10% 250 4148 1nF 10% 50V 10µF 20% 16V 100pF 5% 50V 100nF -20+80% 25V 1nF 10% 50V
TR3- TR4 D1- D2 D4 C1- C29 C30- C32 C33- C34 C35- C36 C37 C36 C40	8341105 8320615 8300482 8300482 4010132 4010166 4000361 4010166 4000219 4010166	051 BC848B 250 4148 250 4148 1nF 10% 50V 100nF -20-80% 50V 100nF -20+80% 50V 10pF 0.5pF 30V 100nF -20+80% 50V 100nF -20+80% 50V	TR6 D5 D6- D9 C43- C48 C49 C50- C51 C53- C54 C55 C36 C57	8300056 8300482 4010132 4200431 4000241 4010166 4010132 4000287	209 1.5V 10% 250 4148 1αF 10% 50V 10μF 20% 16V 100μF 5% 50V 100ηF -20+80% 25V 1nF 10% 50V 220ηF -20+80% 25V
TR3- TR4 D1- D2 D4 C1- C29 C30- C32 C33- C34 C35- C36 C37 C38	8341105 8320615 8300482 8300482 4010132 4010166 4000361 4010166 4000219 4010166	051 BC848B 250 4148 250 4148 1nF 10% 50V 100nF -20-80% 50V 100nF -20+80% 50V 10pF 0.5pF 50V 100nF -20+80% 50V	TR6 D5 D6- D9 C43- C48 C49 C50- C51 C53- C54 C55 C36 C57	8300056 8300482 4010132 4200431 4000241 4010166 4010132 4000287	209 1.5V 10% 250 4148 1αF 10% 50V 10μF 20% 16V 100μF 5% 50V 100ηF -20+80% 25V 1nF 10% 50V 220ηF -20+80% 25V

PCB 03, 8001287 Microcomputer

5011530 5.6kΩ 1% 1/8W 5012069 2.0kΩ 1% 1/8W

5370435 1kΩ 25% 0.1W

4000241 100pF 5% 50V 4010166 100nF -20+80% 50V

4000241 100pF 5% 50V

8300577 250 Z3.9V 2%

8300661 250 Z4.3V 2%

LED green

LED red

8330275

8330246

17	32	51	111	138	150	151	206
8 E	△ 		(° s ')	<u>.</u>	1	,	$\prod_{i \in I}$
244	250						
П							

Resistors not referred to are standard, see page 3-12

△ indicates that static electricity may destroy the component.

* Specia	ally selected	or ad	apted sample.				
P26	7220717	Plug	10 pol	P30			
P27	7220711	Plug 4 pol		P31-	7220711	Plug	4 pol
P28	7220716	Plug	9 pol	P32			
P29-	7220710	Plug 3 pol		P33	7220710	Plug	3 pol
X1	8090075	Crys	tal 12.0 MHz	X2	8090078	Crys	tal 32.768 kHz
B1	8700027	Lithi	um battery				
IC1Δ	8341025	150	4094	IC3Δ	8341079	147	μPD7223
1C2∆	8341418	138	74LS156	IC4△	8341226	150	4001B
TR1-	8320755	051	BC847B	TR12	8320936	051	BC847C
TR8				TR13-	8320753	051	BC856B
TR9- TR10	8320936	051	BC847C	TR16			
D1- D2	8300482	250	BAS 32				-

R49

R56

C8

C12

C18

D25

D26

D27

D28

PCB 05, 8001309 Display

8001383, Backlight

PCB 06, 80013 **IR Transceiver** door sensor

1288 r and left	IC1012	∆ 8341226	150	4001B				
	TR1	8320769	051	BC849C	TR6	8320615	051	BC848B
	TR2	8320740	051	BF840	TR7		-	
	TR3	8320515	051	BC848B	TRS	8320616	051	BC858B
	TR4	8320516	051	BC858B	TR101	8320615	051	BC848B
	TR5	8320740	051	BF840	TR102	8320816	051	BC846B

LED yellow

LED yellow

5011912 1.2kΩ 1% 1/8W

5011912 1.2kΩ 1% 1/8W

4010166 100nF -20+80% 50V

4010166 100nF -20+80% 50V

4000241 100pF 5% 50V

5210006 3.3kΩ 33% foto

8030221 455KHz

8330271

8330271

R15

R18-

R19

C1-

C4-

C5 C6

X1

R39

 $D1_{\tilde{z}}$

D13

D24

D17-

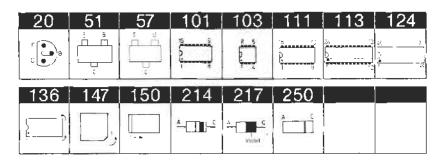
Bang & Olufsen

TR103 8320903 032 BD788

TR109 8320616 051 BC858B

TR104	8320903	032	BD788	TR109	8320616	051	BC858B
	8320616	051	BC858B	TR110	8320615	051	BC848B
	8320615	051	BC848B				
TR108							
2920	AT SETTLE A SET		13/7X)	0.75.4	2000115		ana = 1500000
D2-	8300482	250	4148	0D1 0D2-	8330145 8330237		880um Receive 880um
D7 D8-	8330145	244	880nm Receive	0D2- 0D3	0.00114.01	200	Transmit
D9-	0330143	244	ooulin veceive	0D3	8330145	244	
D107-	8330237	206	880am	0D5-	8330237		880nm
D112	000001		Transmit	0D6			Transmit
R109	5011845	8.2Ω	1% 1/4W	R126	5012069		2 1% 1/8W
R122	5012068		1% 1/8W	R128	5021267	Carlot S. 100 (1)	5% 0.14W
R123	5012067	29.40	2 1% 1/8W	R129	5011845	8.2Ω	1% 1/4W
62.1	1000000	470-1	E EN ENV	C104	1000000	470×1	F 5% 50V
C1 C2	4000286 4010166	230000000000000000000000000000000000000	F 5% 50 V F -20+80% 50 V	C104 C105	4000286 4201087	470p.	-10+100% 40V
C3	4000286		F 5% 50V	C106	4000233		F 5% 50V
C4-	4000293		5% 50V	C107	4000286		F 5% 50V
C5			2/19 (10)	C108	4000281		5% 50V
C6	4010170	2.2nF	10% 50V	C109	4000287	220n	F-20+80% 25V
C7	4130228	470nJ	F 20% 63V	C110	4201082	100µ	F-20+50% 40V
C8	4000286	470pl	F 5% 50V	C111	4010166	100n	F-20+80% 50V
C9	4000293	47pF	5% 50V	C112	4000286		F 5% 50V
C10	4000286	470pl	F 5% 50V	C113	4010209		10% 50V
C11	4000287	220n	F-20+80% 25V	C114	4010173	4.	10% 50V
C15	4010166		F-20+80% 50V	C115	4010209		10% 50V
C16	4000286	470pl	F 5% 50V	C116	4010132		10% 50 V
C17	4000293		5% 50V	C117	4130171	2011 3 10	F 20% 63V
C18	4000289		10% 50V	C118	4010220	100nF 10% 50V	
C19	4000286		F 5% 50V	C119	4200431		20% 16V
C102-	4000241	100p	F 5% 50V	C120	4000287	220n	F-20+80% 25V
C103							
5101	0000504	C 7	0 0 II	7.102	00000011	Cell	tacutt
L101 L102	8020594 8020870		3.3mH 3mH 3%	L103	8020621	Con	Ιθ0μΗ
						_	
P46	7220726	Plug	4 pol	P49	7220710	Plug	3 pol
P47	7220725	Plug	3 pol	P50	7220728	Plug	6 pol
P48	7220727	Plug	5 pol	P83	7220693	Plug	2 pol
BP1	8030056	455k	Hz	BP2	8020562	Coil	455kHz
	8030024	455k	————— Н <i>z</i>				
	8341024	150	4066	IC13∆	8341376	_	HA12136
IC2∆				IC14∆	8341033	138	LF353
IC2∆ I C3∆	8341 033	138	LF353	IC14∆ IC15-		138	
IC1- IC2∆ IC3∆ IC4∆	8341033 8341411	138 150	LF353 LM13700	IC14∆ IC15- IC17∆	8341033 8341024	138 150	LF353 4066
IC2△ IC3△ IC4△ IC5△	8341033 8341411 8341033	138 150 138	LF353 LM13700 LF353	IC14Δ IC15- IC17Δ IC18Δ	8341033 8341024 8341408	138 150 138	LF353 4066 4073
IC2∆ IC3∆ IC4∆ IC5∆ IC6∆	8341033 8341411 8341033 8341024	138 150 138 150	LF353 LM13700 LF353 4066	IC14Δ IC15- IC17Δ IC18Δ IC20Δ	8341033 8341024 8341408 8341417	138 150 138 138	LF353 4066 4073 4021
IC2A IC3A IC4A IC5A IC6A IC7A	8341033 8341411 8341033 8341024 8340752	138 150 138 150 111	LF353 LM13700 LF353 4066 uPC1297CA	IC14Δ IC15- IC17Δ IC18Δ IC20Δ IC21-	8341033 8341024 8341408	138 150 138 138	LF353 4066 4073
IC2A IC3A IC4A IC5A IC6A IC7A IC8A	8341033 8341411 8341033 8341024 8340752 8341041	138 150 138 150 111 138	LF353 LM13700 LF353 4066 uPC1297CA LM324	IC14Δ IC15- IC17Δ IC18Δ IC20Δ IC21- IC22Δ	8341033 8341024 8341408 8341417 8341025	138 150 138 138 138	LF353 4066 4073 4021 4094
IC2A IC3A IC4A IC5A IC6A IC7A IC8A IC10-	8341033 8341411 8341033 8341024 8340752	138 150 138 150 111 138	LF353 LM13700 LF353 4066 uPC1297CA	IC14Δ IC15- IC17Δ IC18Δ IC20Δ IC21-	8341033 8341024 8341408 8341417	138 150 138 138 138	LF353 4066 4073 4021
IC2A IC3A IC4A IC5A IC6A IC7A IC8A	8341033 8341411 8341033 8341024 8340752 8341041	138 150 138 150 111 138	LF353 LM13700 LF353 4066 uPC1297CA LM324	IC14Δ IC15- IC17Δ IC18Δ IC20Δ IC21- IC22Δ	8341033 8341024 8341408 8341417 8341025	138 150 138 138 138	LF353 4066 4073 4021 4094
IC2A IC3A IC4A IC5A IC6A IC7A IC8A IC10- IC12A	8341033 8341411 8341033 8341024 8340752 8341041 8341041	138 150 138 150 111 138 138	LF353 LM13700 LF353 4066 HPC1297CA LM324 LM324	IC14Δ IC15- IC17Δ IC18Δ IC20Δ IC21- IC22Δ IC23Δ	8341033 8341024 8341408 8341417 8341025	138 150 138 138 138	LF353 4066 4073 4021 4094
IC2A IC3A IC4A IC5A IC6A IC7A IC8A IC10- IC12A TR1	8341033 8341411 8341033 8341024 8340752 8341041 8341041	138 150 138 150 111 138 138	LF353 LM13700 LF353 4066 uPC1297CA LM324 LM324	IC14Δ IC15- IC17Δ IC18Δ IC20Δ IC21- IC22Δ IC23Δ	8341033 8341024 8341408 8341417 8341025 8341033	138 150 138 138 138	LF353 4066 4073 4021 4094 LF353
IC2A IC3A IC4A IC5A IC6A IC7A IC8A IC10- IC12A TR1 TR2	8341033 8341411 8341033 8341024 8340752 8341041 8341041 8320755 8320769	138 150 138 150 111 138 138	LF353 LM13700 LF353 4066 uPC1297CA LM324 LM324 BC847B BC849C	IC14Δ IC15- IC17Δ IC18Δ IC20Δ IC21- IC22Δ IC23Δ TR20 TR25	8341033 8341024 8341408 8341417 8341025 8341033	138 150 138 138 138	LF353 4066 4073 4021 4094 LF353 BC847B
IC2A IC3A IC4A IC5A IC6A IC7A IC8A IC10- IC12A TR1 TR2 TR3	8341033 8341411 8341033 8341024 8340752 8341041 8341041 8320755 8320769 8320768	138 150 138 150 111 138 138	LF353 LM13700 LF353 4066 uPC1297CA LM324 LM324	IC14Δ IC15- IC17Δ IC18Δ IC20Δ IC21- IC22Δ IC23Δ	8341033 8341024 8341408 8341417 8341025 8341033	138 150 138 138 138 138	LF353 4066 4073 4021 4094 LF353 BC847B BC847B
IC2A IC3A IC4A IC5A IC6A IC7A IC8A IC10- IC12A TR1 TR2	8341033 8341411 8341033 8341024 8340752 8341041 8341041 8320755 8320769	138 150 138 150 111 138 138	LF353 LM13700 LF353 4066 uPC1297CA LM324 LM324 BC847B BC849C BC850B	IC14Δ IC15- IC17Δ IC18Δ IC20Δ IC21- IC22Δ IC23Δ TR20 TR25 TR28	8341033 8341024 8341408 8341417 8341025 8341033 8320755 8320755	138 150 138 138 138 138	LF353 4066 4073 4021 4094 LF353 BC847B BC847B
IC2A IC3A IC4A IC5A IC6A IC7A IC8A IC10- IC12A TR1 TR2 TR3 TR4	8341033 8341411 8341033 8341024 8340752 8341041 8341041 8320755 8320769 8320768 8320769	138 150 138 150 111 138 138 051 051 051	LF353 LM13700 LF353 4066 uPC1297CA LM324 LM324 BC847B BC849C BC850B BC849C	IC14Δ IC15- IC17Δ IC18Δ IC20Δ IC21- IC22Δ IC23Δ TR20 TR25 TR28 TR29	8341033 8341024 8341408 8341417 8341025 8341033 8320755 8320755 8320753	138 150 138 138 138 138 051 051 051	LF353 4066 4073 4021 4094 LF353 BC847B BC847B BC856B
IC2A IC3A IC4A IC5A IC5A IC6A IC7A IC8A IC10- IC12A TR1 TR2 TR3 TR4 TR5	8341033 8341411 8341033 8341024 8340752 8341041 8341041 8320755 8320769 8320768 8320768	138 150 138 150 111 138 138 051 051 051 051	LF353 LM13700 LF353 4066 uPC1297CA LM324 LM324 BC847B BC849C BC850B BC849C BC850B	IC14Δ IC15- IC17Δ IC18Δ IC20Δ IC21- IC22Δ IC23Δ TR20 TR25 TR28 TR29 TR30-	8341033 8341024 8341408 8341417 8341025 8341033 8320755 8320755 8320753	138 150 138 138 138 138 051 051 051	LF353 4066 4073 4021 4094 LF353 BC847B BC847B BC856B
IC2A IC3A IC4A IC5A IC6A IC7A IC8A IC10- IC12A TR1 TR2 TR2 TR3 TR4 TR5 TR6-	8341033 8341411 8341033 8341024 8340752 8341041 8341041 8320755 8320769 8320768 8320768	138 150 138 150 111 138 138 051 051 051 051	LF353 LM13700 LF353 4066 uPC1297CA LM324 LM324 BC847B BC849C BC850B BC849C BC850B	IC14Δ IC15- IC17Δ IC18Δ IC20Δ IC21- IC22Δ IC23Δ IC23Δ IC23Δ IC23Δ IC23Δ	8341033 8341024 8341408 8341417 8341025 8341033 8320755 8320755 8320753 8320752	138 150 138 138 138 138 138 051 051 051	LF353 4066 4073 4021 4094 LF353 BC847B BC847B BC856B BC817-40
IC2A IC3A IC4A IC5A IC6A IC7A IC8A IC10- IC12A TR1 TR2 TR3 TR4 TR5 TR6- TR7	8341033 8341411 8341033 8341024 8340752 8341041 8341041 8320755 8320769 8320768 8320768 8320768 8320768	138 150 138 150 111 138 138 051 051 051 051	LF353 LM13700 LF353 4066 uPC1297CA LM324 LM324 BC847B BC849C BC850B BC849C BC850B BC849C BC850B BC849C	IC14Δ IC15- IC17Δ IC18Δ IC20Δ IC21- IC22Δ IC23Δ TR20 TR25 TR28 TR29 TR30- TR32- TR32- TR33-	8341033 8341024 8341408 8341417 8341025 8341033 8320755 8320755 8320753 8320752	138 150 138 138 138 138 138 051 051 051	LF353 4066 4073 4021 4094 LF353 BC847B BC847B BC856B BC817-40
IC2A IC3A IC4A IC5A IC6A IC7A IC8A IC10- IC12A TR1 TR2 TR3 TR4 TR5 TR6- TR7 TR8	8341033 8341411 8341033 8341024 8340752 8341041 8320753 8320769 8320768 8320768 8320768 8320768 8320753	138 150 138 150 111 138 138 051 051 051 051	LF353 LM13700 LF353 4066 uPC1297CA LM324 LM324 BC847B BC849C BC850B BC849C BC850B BC849C BC850B BC849C BC856B	IC14△ IC15- IC17△ IC18△ IC20△ IC21- IC22△ IC23△ TR25 TR25 TR28 TR29 TR30- TR32 TR33- TR36	8341033 8341024 8341408 8341417 8341025 8341033 8320755 8320755 8320752 8320752	138 150 138 138 138 138 051 051 051 051	LF353 4066 4073 4021 4094 LF353 BC847B BC847B BC856B BC817-40 BC856B
IC2A IC3A IC4A IC5A IC6A IC7A IC8A IC10- IC12A TR1 TR2 TR3 TR4 TR5 TR6- TR7 TR8 TR9	8341033 8341411 8341033 8341024 8340752 8341041 8320765 8320768 8320768 8320768 8320768 8320753 8320753	138 150 138 150 111 138 138 051 051 051 051 051 051	LF353 LM13700 LF353 4066 HPC1297CA LM324 LM324 LM324 BC847B BC849C BC850B BC849C BC850B BC849C BC850B BC847B	IC14△ IC15- IC17△ IC18△ IC20△ IC21- IC22△ IC23△ IC23△ IC23△ IC23△ IC23△ IC23△ IC23△ IC23△ IC23△ IC23△ IC23△ IC23△ IC23△ IC23△ IC23△ IC23△ IC23△ IC30-	8341033 8341024 8341408 8341417 8341025 8341033 8320755 8320755 8320752 8320752	138 150 138 138 138 138 051 051 051 051	LF353 4066 4073 4021 4094 LF353 BC847B BC847B BC856B BC817-40 BC856B BC817-40
IC2A IC3A IC4A IC5A IC6A IC7A IC8A IC10- IC12A TR1 TR2 TR3 TR4 TR5 TR6- TR7 TR8 TR9 TR10-	8341033 8341411 8341033 8341024 8340752 8341041 8320765 8320768 8320768 8320768 8320768 8320753 8320753	138 150 138 150 111 138 138 051 051 051 051 051 051	LF353 LM13700 LF353 4066 HPC1297CA LM324 LM324 LM324 BC847B BC849C BC850B BC849C BC850B BC849C BC850B BC847B	TR20 TR25 TR25 TR25 TR25 TR28 TR29 TR30- TR32 TR33- TR36 TR37- TR39	8341033 8341024 8341408 8341417 8341025 8341033 8320755 8320755 8320753 8320752 8320753	138 150 138 138 138 138 051 051 051 051	LF353 4066 4073 4021 4094 LF353 BC847B BC847B BC856B BC817-40 BC856B BC817-40
IC2A IC3A IC4A IC5A IC6A IC7A IC8A IC10- IC12A TR1 TR2 TR3 TR4 TR5 TR6- TR7 TR8 TR9 TR10- TR10- TR11	8341033 8341411 8341033 8341024 8340752 8341041 8320753 8320769 8320768 8320768 8320753 8320753 8320753 8320753	138 150 138 150 111 138 138 051 051 051 051 051 051	LF353 LM13700 LF353 4066 HPC1297CA LM324 LM324 LM324 BC847B BC849C BC850B BC849C BC850B BC849C BC850B BC847B BC847B BC847B	TR20 TR25 TR28 TR29 TR30 TR33 TR36 TR37 TR39 TR40	8341033 8341024 8341408 8341417 8341025 8341033 8320755 8320755 8320753 8320752 8320753 8320752	138 150 138 138 138 138 138 051 051 051 051	LF353 4066 4073 4021 4094 LF353 BC847B BC847B BC856B BC817-40 BC856B BC817-40 BC856B
IC2A IC3A IC4A IC5A IC6A IC7A IC8A IC10- IC12A TR1 TR2 TR3 TR4 TR5 TR6- TR7 TR7 TR8 TR9 TR10- TR10- TR11 TR10- TR11	8341033 8341411 8341033 8341024 8340752 8341041 8320753 8320769 8320768 8320768 8320753 8320753 8320753 8320753	138 150 138 150 111 138 138 051 051 051 051 051 051	LF353 LM13700 LF353 4066 HPC1297CA LM324 LM324 LM324 BC847B BC849C BC850B BC849C BC850B BC849C BC850B BC847B BC847B BC847B	TR20 TR23 TR23 TR23 TR25 TR28 TR29 TR30- TR32- TR33- TR36 TR37- TR39 TR40 TR41-	8341033 8341024 8341408 8341417 8341025 8341033 8320755 8320755 8320753 8320752 8320753 8320752	138 150 138 138 138 138 138 051 051 051 051 051	LF353 4066 4073 4021 4094 LF353 BC847B BC847B BC856B BC817-40 BC856B BC817-40 BC856B

PCB 07, 8004913 Tape 8001381 - Automatic rec. level



Resistors not referred to are standard, see page 3-12

 Δ indicates that static electricity may destroy the component.

^{*} Specially selected or adapted sample.

	lly selected				
 D1	8300409	214 BAV20	D19	8300482	250 4148
D2		250 4148	D23-		250 4148
D4-		250 4148	D24		
D12			D26-	8300409	214 BAV20
D13	8300409	214 BAV20	D27		
D14		250 4148	D28-	8300482	250 4148
D15	8300726	7.5V 2%	D29	0000100	
D16		250 4148	2.27		
R3	5011792	4.75kΩ 1% 1/8W	R115	5011996	8.25kΩ 1% 1/8W
27	5011870		R117	5011992	12.1kΩ 1% 1/8W
₹8	5011871	365Q 1% 1/8W	R118	5011995	46.4kΩ 1% 1/8W
39	5011849	8.66kΩ 1% 1/8W	R119	5011899	21.5kΩ 1% 1/8W
R13	5370382	47kΩ 30% 0.1W	R120	5011994	4.02kΩ 1% 1/8W
215	5011792	4.75kΩ 1% 1/8W	R126	5011838	18kΩ 1% 1/8W
219		8.66kΩ 1% 1/8W	R135-	5011838	
220	5011870	90.9Ω 1% 1/8W	R136		
R21	5011871		R159-	5370381	10kQ 30% 0.1W
R25		47kΩ 30% 0.1W	R164		
252-	5370403	22kΩ 30% 0.1W	R198	5370381	10kΩ 30% 0.1W
R53			R233-	5011844	2.55kΩ 1% 1/8W
389	5020489	10Ω 10% 0.3W	R234	MARKE A	4000000
R102	5011986		R235-	5011840	137Ω 1% 1/8W
R103	5021023		R236	5011010	10132 1:0 1:014
R104	5011752	12.7kΩ 1% 1/8W	R238	5020770	4.42kΩ 1% 1/4W
R105		8.25kΩ 1% 1/8W	R239	5020074	15kΩ 1% 1/4W
R107	5011992	12.1kΩ 1% 1/8W	R243-	5021119	270Ω 5% 1W
R108		46.4kΩ 1% 1/8W	R244	0021113	21016 010 610
R109	5011899	21.5kΩ 1% 1/8W	R248-	5021119	270Ω 5% 1W
R110	5011033	THE STATE OF THE	R249	.0021113	21032 370 110
R112	5011986		R266-	5011517	220Ω 5% 1W
R113	5021023		R267	3011311	271/25 9A6 TM
R114	5011752	12.7kΩ 1% 1/8W	K201		
				887350	12/20, 27 3/2019/2020
C1	4200403	100µF -20+50% 25V	C27	4010259	5.5nF 10% 50V
C2	4200525	22μF 20% 10V	C28	Houseneder	THE PRODUCT AND LOSSES.
C3	4000283		C29-	4000290	22nF 10% 50V
C4	4000233	220pF 5% 50V	C30	10/2020202020	Faces regress neededs
C5	4200515	4.7µF 20% 25V	C31-	4100240	5.6nF 5% 63V
C6	4200625	3.3µF 20% 50V	C32	\$276s	STOLEN THE
Ç7	4130315	15nF 5% 63V	€35.	4130379	270nF 10% 63V
C8	4000351	1.5nF 5% 50V	C36	0.0000	
C9	4100236	1nF 5% 63V	C37-	4200510	10µF 20% 16V
010	4010157	10nF 10% 50V	C38		170 Access increase
	4000233	220pF 5% 50V	C39-	4200617	47µF 20% 10V
			C40		
	4200403	100µF -20+50% 25V			A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C12 C13		100µF -20+50% 25V 22µF 20% 10V	C42-	4200517	2.2µF 20% 50V
012 013 014	4200403 4201219 4000283	22µF 20% 10V 270pF 5% 50V	C42- C43	4200517	William 1
012 013 014	4200403 4201219	22µF 20% 10V 270pF 5% 50V 4.7µF 20% 25V	C42-	4200517 4000327	2.2µF 20% 50V 820pF 5% 50V
012 013 014 015	4200403 4201219 4000283	22µF 20% 10V 270pF 5% 50V	C42- C43		William 1
012 013 014 015 016	4200403 4201219 4000283 4200515	22µF 20% 10V 270pF 5% 50V 4.7µF 20% 25V	C42- C43 C44-		Willer 1
012 013 014 015 016 017	4200403 4201219 4000283 4200515 4130315	22μF 20% 10V 270pF 5% 50V 4.7μF 20% 25V 15nF 5% 63V	C42- C43 C44- C45	4000327	82 0pF 5% 5 0V
012 013 014 015 016 017 018	4200403 4201219 4000283 4200515 4130315 4100236	22μF 20% 10V 270pF 5% 50V 4.7μF 20% 25V 15nF 5% 63V 1nF 5% 63V	C42- C43 C44- C45 C46	4000327 4200525	820pF 5% 50V 22µF 20% 10V
C12 C13 C14 C15 C16 C17 C18 C19	4200403 4201219 4000283 4200515 4130315 4100236 4200625	22μF 20% 10V 270pF 5% 50V 4.7μF 20% 25V 15nF 5% 63V 1nF 5% 63V 3.3μF 20% 50V	C42- C43 C44- C45 C46 C47-	4000327 4200525	820pF 5% 50V 22µF 20% 10V
012 013 014 015 016 017 018 019	4200403 4201219 4000283 4200515 4130315 4100236 4200625 4000351	22μF 20% 10V 270pF 5% 50V 4.7μF 20% 25V 15nF 5% 63V 1nF 5% 63V 3.3μF 20% 50V 1.5nF 5% 50V	C42- C43 C44- C45 C46 C47- C48	4000327 4200525 4010170	820pF 5% 50V 22µF 20% 10V 2.2nF 10% 50V
C12 C13 C14 C15 C16 C17 C18 C19 C20 C21-	4200403 4201219 4000283 4200515 4130315 4100236 4200625 4000351 4010157	22μF 20% 10V 270pF 5% 50V 4.7μF 20% 25V 15nF 5% 63V 1nF 5% 63V 3.3μF 20% 50V 1.5nF 5% 50V 10nF 10% 50V	C42- C43 C44- C45 C46 C47- C48 C19- C50	4000327 4200525 4010170 4000283	820pF 5% 50V 22µF 20% 10V 2.2nF 10% 50V
C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21- C22	4200403 4201219 4000283 4200515 4130315 4100236 4200625 4000351 4010157	22μF 20% 10V 270pF 5% 50V 4.7μF 20% 25V 15nF 5% 63V 1nF 5% 63V 3.3μF 20% 50V 1.5nF 5% 50V 10nF 10% 50V	C42- C43 C44- C45 C46 C47- C48 C19-	4000327 4200525 4010170	820pF 5% 50V 22µF 20% 10V 2.2nF 10% 50V 270pF 5% 50V

PCB 08, 8005275 CD

C54 C55	1010150				
C55	4010170	2.2nF 10% 50V	C83		
	4200515	4.7µF 20% 25V	C84-	4130233	220nF 20% 63V
C56	4200792	10µF 20% 50V	C85		
C57	4200512	1µF 20% 50V	C86-	4200510	10µF 20% 16V
C58	4100243		C87		
C59	4000163	10pF 5% 63V	C85	4130313	470nF 20% 63V
C60	4200510	10µF 20% 16V	C89	4200512	1μF 20% 50V
C61-	4010157	10nF 10% 50V	C90	4200508	22µF 20% 25V
C62	1010101	10111 10// 00 1	C93	4200517	2.2µF 20% 50V
C63	4200524	10µF 20% 25V	C94-	4200600	470µF 20% 16V
				4200000	4ropt 20% 10%
C64-	4010216	22nF 10% 100V	C95	4000500	0.47.JL 00061E0V
C65	4510000	100 P 100 F0T	C96-	4200523	0.47µF 20% 50V
C66-	4010220	100nF 10% 50V	C97	4:00000	000 E 0000000 053
C67		STE manufact	C98	4000287	220nF -20+80% 25V
C68-	4100255	560pF 5% 63V	C99	4130236	330nF 20% 63V
C69		556 463 666	C100	4200403	100µF -20+50% 25V
C70-	4000241	100pF 5% 50V	C101-	4010195	2.7nF 5% 50V
C71			C102		Mr. Country
C72-	4000344	560pF 5% 50V	C103-	4010132	1nF 10% 50V
C73			C104		
C74	4200631	0.22µF 20% 50V	C105-	4000290	22nF 10% 50V
C75	4200600	470µF 20% 16V	C106		
C76-	4200515	4.7µF 20% 25V	C107-	4000241	100pF 5% 50V
C77		TOWNED ROOM POOR	C111		
C78-	4200512	1µF 20% 50V	C112	4010220	100nF 10% 50V
C80	4200015	The 2010 001	C112	4010220	10uF 20% 25V
C81	4200508	22µF 20% 25V	C113	4200524	10nF 10% 50V
C82-	4130333	220nF 5% 63V	C114	1010137	TOMP TOWN JOV
C02-	4130333	220Hr 590 05 V			
LI+	8022237	Coil 10mH	L7-	8022251	Coil 5mH
L4			L8		
L5	8020556	Coil 2.4mII	L9-	8020594	Coil 3.3mH 5%
L6	8020552	Coil 10µH 10%	L10		
P51	7220716	Plug 9 pol	P55	7220711	Plug 4 pol
P52	6276291	Plug 12 pol	P56	7220712	Plug 5 pol
P53	7220712	Plug 5 pol	P57	7220883	Plug 7 pol
P54	7220710	Plug 3 pel	P58	7220900	Plug 4 pol
Lat	7220710	1 (tig 5 per	1.00	1220300	raug + por
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IC1∆	8341316	150 TDA8808T	IC6A	8341152	136 TDA1541A
IC2∆	8341317	150 TDA8809T	IC7*∆	8341450	124 MC68HC05C4
IC2∆ IC3∆	8341317 8341318	150 TDA8809T 147 SAA7310GP	1C7*∆ IC8∆	8341450 8341682	124 MC68HC05C4 101 0372
IC2∆ IC3∆ IC4∆	8341317 8341318 8340927	150 TDA8809T 147 SAA7310GP 111 41416C-20	IC7*∆ IC8∆ IC9∆	8341450 8341682 8341683	124 MC68HC05C4 101 0372 150 LM837
IC2∆ IC3∆ IC4∆	8341317 8341318	150 TDA8809T 147 SAA7310GP	1C7*∆ IC8∆	8341450 8341682	124 MC68HC05C4 101 0372
IC2∆ IC3∆ IC4∆	8341317 8341318 8340927	150 TDA8809T 147 SAA7310GP 111 41416C-20	IC7*∆ IC8∆ IC9∆	8341450 8341682 8341683	124 MC68HC05C4 101 0372 150 LM837
IC2△ IC3△ IC4△ IC5△	8341317 8341318 8340927 8341153	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B	IC7*∆ IC8∆ IC9∆	8341450 8341682 8341683	124 MC68HC05C4 101 0372 150 LM837
IC2Δ IC3Δ IC4Δ IC5Δ	8341317 8341318 8340927 8341153 8320512	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 620 BC338-25	IC7*A IC8A IC9A IC13A	8341450 8341682 8341683 8341420	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372
IC2Δ IC3Δ IC4Δ IC5Δ TR1 TR2-	8341317 8341318 8340927 8341153 8320512	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B	IC7*A IC8A IC9A IC13A TR6- TR7	8341450 8341682 8341683 8341420 8320616	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B
IC2Δ IC3Δ IC4Δ IC5Δ IC5Δ TR1 TR2- TR3	8341317 8341318 8340927 8341153 8320512 8320724	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 020 BC338-25 057 BSR56	IC7*A IC8A IC9A IC13A TR6- TR7 TR8	8341450 8341682 8341683 8341420 8320616 8320620	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B
IC2Δ IC3Δ IC4Δ IC5Δ IC5Δ TR1 TR2- TR3	8341317 8341318 8340927 8341153 8320512 8320724	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 620 BC338-25	IC7*A IC8A IC9A IC13A TR6- TR7	8341450 8341682 8341683 8341420 8320616	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550
IC2A IC3A IC4A IC5A TR1 TR2- TR3 TR4	8341317 8341318 8340927 8341153 8320512 8320724 8320616	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 020 BC338-25 057 BSR56 051 BC858B	TR6- TR8 TR8 TR7 TR8 TR11	8341450 8341682 8341683 8341420 8320616 8320620	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B
IC2A IC3A IC4A IC5A TR1 TR2- TR3 TR4	8341317 8341318 8340927 8341153 8320512 8320724	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 020 BC338-25 057 BSR56	TR6- TR8 TR11	8341450 8341682 8341683 8341420 8320616 8320620 8320757	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40
IC2\(\triangle \) IC3\(\triangle \) IC4\(\triangle \) IC5\(\triangle \) TR1 TR2- TR3 TR4	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 020 BC338-25 057 BSR56 051 BC858B	TR6- TR8 TR11 D5 D6-	8341450 8341682 8341683 8341420 8320616 8320620 8320757	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B
IC2\(\triangle \) IC3\(\triangle \) IC4\(\triangle \) IC5\(\triangle \) TR1 TR2- TR3 TR4	8341317 8341318 8340927 8341153 8320512 8320724 8320616	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 020 BC338-25 057 BSR56 051 BC858B	TR6- TR8 TR11	8341450 8341682 8341683 8341420 8320616 8320620 8320757	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40
IC2\(\triangle \) IC3\(\triangle \) IC4\(\triangle \) IC5\(\triangle \) TR1 TR2- TR3 TR4	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 020 BC338-25 057 BSR56 051 BC858B	TR6- TR8 TR11 D5 D6-	8341450 8341682 8341683 8341420 8320616 8320620 8320757	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40
IC2A IC3A IC4A IC5A TR1 TR2- TR3 TR4 D1- D2	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 020 BC338-25 057 BSR56 051 BC858B 7.5V 5% BYM10 100V	TR6- TR8 TR11 D5 D6-	8341450 8341682 8341683 8341420 8320616 8320620 8320757	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148
IC2A IC3A IC4A IC5A TR1 TR2- TR3 TR4 D1- D2 D4- R1-	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636 8300557	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 020 BC338-25 057 BSR56 051 BC858B 7.5V 5% BYM10 100V	TR6- TR7 TR8 TR11	8341450 8341682 8341683 8341420 8320616 8320620 8320757	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148
IC2A IC3A IC4A IC5A TR1 TR2- TR3 TR4 D1- D2 D4- R1- R2	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636 8300557	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 020 BC338-25 057 BSR56 051 BC858B 7.5V 5% BYM10 100V 6.8kΩ2 1% 1/8W	TR6- TR7 TR8 TR11 D5 D6- D7 R40- R41	8341450 8341682 8341683 8341420 8320616 8320620 8320757 8300482	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148 5.6MΩ 10% 1/8W
IC2A IC3A IC4A IC5A TR1 TR2- TR3 TR4 D1- D2 D4- R1- R2 R5	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636 8300557 5012057 5011527	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 020 BC338-25 057 BSR56 051 BC858B 7.5V 5% BYM10 100V 6.8kΩ2 1% 1/8W 12kΩ 1% 1/8W	TR6- TR7 TR8 TR11 D5 D6- D7 R40- R41 R42-	8341450 8341682 8341683 8341420 8320616 8320620 8320757	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148
IC2\(\triangle \text{IC3}\) IC3\(\triangle \text{IC3}\) IC4\(\triangle \text{IC5}\) TR1 TR2- TR3 TR4	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636 8300557	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 020 BC338-25 057 BSR56 051 BC858B 7.5V 5% BYM10 100V 6.8kΩ2 1% 1/8W	TR6- TR7 TR8 TR11 D5 D6- D7 R40- R41 R42- R43	8341450 8341682 8341683 8341420 8320616 8320620 8320757 8300482 5011329 5011853	124 MC68HC05C- 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148 5.6MΩ 10% 1/8W 158Ω 1% 1/4W
IC2\(\triangle \text{IC3}\) IC3\(\triangle \text{IC3}\) IC4\(\triangle \text{IC5}\) TR1 TR2- TR3 TR4 D1- D2 D4- R1- R2 R5 R6- R7	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636 8300557 5012057 5012057 5021030	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 620 BC338-25 057 BSR56 051 BC858B 7.5V 5% BYM10 100V 6.8kΩ2 1% 1/8W 12kΩ 1% 1/8W 3.3Ω 10% 0.3W	TR6- TR7 TR8 TR11 D5- D6- D7 R40- R41 R42- R43 R44-	8341450 8341682 8341683 8341420 8320616 8320620 8320757 8300482	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148 5.6MΩ 10% 1/8W
IC2\(\triangle \text{IC3}\) IC3\(\triangle \text{IC3}\) IC4\(\triangle \text{IC5}\) IC5\(\triangle \text{TR1}\) TR2-TR3 TR4	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636 8300557 5012057 5011527 5011527	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 620 BC338-25 057 BSR56 051 BC858B	TR6- TR7 TR8 TR11 D5 D6- D7 R40- R41 R42- R43 R44- R45	8341450 8341682 8341683 8341420 8320616 8320620 8320757 8300482 5011329 5011329	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148 5.6MΩ 10% 1/8W 158Ω 1% 1/4W 5.6MΩ 10% 1/8W
IC2\(\triangle \text{IC3}\) IC3\(\triangle \text{IC3}\) IC4\(\triangle \text{IC5}\) IC5\(\triangle \text{TR1}\) TR2-TR3 TR4	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636 8300557 5012057 5012057 5011527 5011527 5011527 5011527	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 620 BC338-25 657 BSR56 051 BC858B	TR6- TR7 TR8 TR11 D5 D6- D7 R40- R41 R42- R43 R44- R45 R46-	8341450 8341682 8341683 8341420 8320616 8320620 8320757 8300482 5011329 5011853	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148 5.6MΩ 10% 1/8W 158Ω 1% 1/4W
IC2\(\triangle \) IC3\(\triangle \) IC3\(\triangle \) IC4\(\triangle \) IC5\(\triangle \) TR1 TR2- TR3 TR4	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636 8300557 5012057 5011527 5021030 5011527 5011744 5020629	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 620 BC338-25 657 BSR56 051 BC858B 7.5V 5% BYM10 100V 6.8kΩ2 1% 1/8W 12kΩ 1% 1/8W 12kΩ 1% 1/8W 24kΩ 1% 1/4W 18Ω 5% 0.30W	TR6- TR7 TR8 TR11 D5 D6- D7 R40- R41 R42- R43 R44- R45 R46- R49	8341450 8341682 8341683 8341420 8320616 8320620 8320757 8300482 5011329 5011329 5011329	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148 5.6MΩ 10% 1/8W 158Ω 1% 1/4W 5.6MΩ 10% 1/8W 1.5kΩ 1% 1/4W
IC2 \(\text{IC3 \(\text{A} \) IC3 \(\text{A} \) IC5 \(\text{A} \) TR1 TR2- TR3 TR4 \(\text{D1-} \) D2- \(\text{D4-} \) D4- \(\text{R1-} \) R7- R8- R7- R8- R1- R8- R1- R1- R8- R1- R1- R8- R1- R1- R1- R1- R1- R1- R1- R1- R1- R1	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636 8300557 5012057 5011527 5021030 5011527 5011744 5020629 5020877	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 020 BC338-25 057 BSR56 051 BC858B 7.5V 5% BYM10 100V 6.8kΩ2 1% 1/8W 12kΩ 1% 1/8W 12kΩ 1% 1/8W 24kΩ 1% 1/4W 18Ω 5% 0.30W 12Ω 10% 0.3W	TR6- TR7 TR8 TR11 D5 D6- D7 R40- R41 R42- R43 R44- R45 R46- R49 R50-	8341450 8341682 8341683 8341420 8320616 8320620 8320757 8300482 5011329 5011329	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148 5.6MΩ 10% 1/8W 158Ω 1% 1/4W 5.6MΩ 10% 1/8W
IC2 \(\triangle IC2 \) IC3 \(\triangle IC3 \) IC4 \(\triangle IC5 \) TR1 TR2- TR3 TR4 \(\triangle IC2 \) D4- \(\triangle IC3 \) D4- \(\triangle IC3 \) R7 R8 R6- R7 R8 R12 R18 R19 R21	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636 8300557 5012057 501257 5011527 5021030 5011527 5011744 5020629 5020877 5011914	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 020 BC338-25 057 BSR56 051 BC858B 7.5V 5% BYM10 100V 6.8kΩ2 1% 1/8W 12kΩ 1% 1/8W 12kΩ 1% 1/8W 24kΩ 1% 1/4W 18Ω 5% 0.30W 12Ω 16% 0.3W 5.1kΩ 1% 1/8W	TR6- TR7 TR8 TR11 D5 D6- D7 R40- R41 R42- R43 R44- R45 R46- R49 R50- R51	8341450 8341682 8341683 8341420 8320616 8320620 8320757 8300482 5011329 5011853 5011329 5012056 5011854	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148 5.6MΩ 10% 1/8W 158Ω 1% 1/4W 5.6MΩ 10% 1/8W 1.5kΩ 1% 1/4W 2.1kΩ 1% 1/4W
IC2\(\triangle \text{IC3}\) IC3\(\triangle \text{IC3}\) IC4\(\triangle \text{IC5}\) TR1 TR2- TR3 TR4 D1- D2 D4- R1- R2 R5 R6- R7 R8 R12 R18 R19 R21 R22	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636 8300557 5012057 5011527 5021030 5011527 5021030 5011527 5021030 5011527 5021030 5011527 5021030	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 020 BC338-25 057 BSR56 051 BC858B 7.5V 5% BYM10 100V 6.8kΩ2 1% 1/8W 12kΩ 1% 1/8W 12kΩ 1% 1/8W 24kΩ 1% 1/4W 18Ω 5% 0.30W 12Ω 10% 0.3W 5.1kΩ 1% 1/8W 47kΩ 1% 1/8W	TR6- TR7 TR8 TR11 D5 D6- D7 R40- R41 R42- R43 R44- R45 R46- R49 R50- R51 R52	8341450 8341682 8341683 8341420 8320616 8320620 8320757 8300482 5011329 5011329 5012056 5011854 5020956	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148 5.6MΩ 10% 1/8W 158Ω 1% 1/4W 5.6MΩ 10% 1/4W 2.1kΩ 1% 1/4W 68Ω 5% 0.14W
IC2\(\triangle \text{IC3}\) IC3\(\triangle \text{IC3}\) IC4\(\triangle \text{IC5}\) TR1 TR2- TR3 TR4 D1- D2 D4- R1- R2 R5 R6- R7 R8 R12 R18 R12 R18 R12 R18 R12 R18 R12 R21 R22 R23	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636 8300557 5012057 5011527 5021030 5011527 5011744 5020629 5020877 5011914 5012058 5020074	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 620 BC338-25 657 BSR56 651 BC858B 7.5V 5% BYM10 100V 6.8kΩ2 1% 1/8W 12kΩ 1% 1/8W 12kΩ 1% 1/8W 24kΩ 1% 1/4W 18Ω 5% 0.30W 12Ω 10% 0.3W 5.1kΩ 1% 1/8W 47kΩ 1% 1/4W 15kΩ 1% 1/4W	TR6- TR7 TR8 TR11 D5 D6- D7 R40- R41 R42- R43 R44- R45 R46- R49 R50- R51 R52 R55	8341450 8341682 8341683 8341420 8320616 8320620 8320757 8300482 5011329 5011329 5012056 5011854 5020956 5021246	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148 5.6MΩ 10% 1/8W 158Ω 1% 1/4W 5.6MΩ 10% 1/8W 1.5kΩ 1% 1/4W 2.1kΩ 1% 1/4W 68Ω 5% 0.14W 68Ω 5% 0.14W 68Ω 5% 0.14W
IC2\(\triangle \text{IC3}\) IC3\(\triangle \text{IC3}\) IC4\(\triangle \text{IC5}\) IC5\(\triangle \text{TR1}\) IT82- IT83 IT84 ID1- ID2 ID4- IT85 IT87 IT88 IT88 IT88 IT88 IT88 IT88 IT88	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636 8300557 5012057 5012057 5011527 5021030 5011527 5011744 5020629 5020877 5011914 5012058 5020074 5370324	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 620 BC338-25 057 BSR56 051 BC858B 7.5V 5% BYM10 100V 6.8kΩ2 1% 1/8W 12kΩ 1% 1/8W 3.Ω 10% 0.3W 12kΩ 1% 1/4W 18Ω 5% 0.30W 12Ω 10% 0.3W 5.1kΩ 1% 1/4W 15kΩ 1% 1/4W	TR6- TR7 TR8 TR11 D5- D6- D7 R40- R41 R42- R43 R44- R45 R46- R49 R50- R51 R52 R55 R68	8341450 8341682 8341683 8341420 8320616 8320620 8320757 8300482 5011329 5011329 5012056 5011854 5020956 5021246 5021054	124 MC68HC05C- 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148 5.6MΩ 10% 1/8W 1.5kΩ 1% 1/4W 2.1kΩ 1% 1/4W 68Ω 5% 0.14W 68Ω 5% 0.14W 1Ω 10% 0.36W
IC2\(\triangle \text{IC3}\) IC3\(\triangle \text{IC3}\) IC4\(\triangle \text{IC5}\) IC5\(\triangle \text{TR1}\) TR2-TR3 TR4	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636 8300557 5012057 5011527 5021030 5011527 5021030 5011527 5011744 5020629 5020877 5011914 5012058 5020674 5370324 5021030	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 620 BC338-25 057 BSR56 051 BC858B	TR6- TR7 TR8 TR11 D5 D6- D7 R40- R41 R42- R43 R44- R45 R46- R50- R51 R52 R55 R68 R69	8341450 8341682 8341683 8341420 8320616 8320620 8320757 8300482 5011329 5011329 5012056 5011854 5020956 5021246 5021054 5020489	124 MC68HC05C- 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148 5.6MΩ 10% 1/8W 1.5kΩ 1% 1/4W 2.1kΩ 1% 1/4W 68Ω 5% 0.14W 68Ω 5% 0.14W 1Ω 10% 0.36W 10Ω 10% 0.36W 10Ω 10% 0.30W
IC2\(\triangle \text{IC3}\) IC3\(\triangle \text{IC3}\) IC4\(\triangle \text{IC5}\) IC5\(\triangle \text{TR1}\) IT2- TR3 TR4	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636 8300636 8300557 5012057 5011527 5011527 5011527 5011527 5011744 5020629 5020877 5011914 5012058 5020074 5370324 5021030 5011571	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 620 BC338-25 657 BSR56 051 BC858B	TR6- TR7 TR8 TR11 D5 D6- D7 R40- R41 R42- R43 R44- R45 R46- R49 R50- R51 R52 R55 R68 R69 R70	8341450 8341682 8341683 8341420 8320616 8320620 8320757 8300482 5011329 5011329 5012056 5011854 5020956 5021246 5021054 5020489 5021030	124 MC68HC05C- 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148 5.6MΩ 10% 1/8W 1.5kΩ 1% 1/4W 5.6MΩ 10% 1/4W 2.1kΩ 1% 1/4W 68Ω 5% 0.14W 68Ω 5% 0.14W 1Ω 10% 0.36W 10Ω 10% 0.30W 3.3Ω 10% 0.30W
IC2\(\triangle \text{IC3}\) IC3\(\triangle \text{IC3}\) IC4\(\triangle \text{IC5}\) IC5\(\triangle \text{TR1}\) TR1 TR2- TR3 TR4	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636 8300636 8300557 5012057 5012057 5011527 5021030 5011527 5011744 5020629 5020877 5011914 5012058 5020074 5370324 5021030 5011571 5021030	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 620 BC338-25 657 BSR56 051 BC858B	TR6- TR7 TR8 TR11 D5 D6- D7 R40- R41 R42- R43 R44- R45 R46- R49 R50- R51 R52 R55 R68 R69 R70 R71-	8341450 8341682 8341683 8341420 8320616 8320620 8320757 8300482 5011329 5011329 5012056 5011854 5020956 5021246 5021054 5020489	124 MC68HC05C- 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148 5.6MΩ 10% 1/8W 1.5kΩ 1% 1/4W 2.1kΩ 1% 1/4W 68Ω 5% 0.14W 68Ω 5% 0.14W 1Ω 10% 0.36W 10Ω 10% 0.36W 10Ω 10% 0.30W
IC2\(\triangle \text{IC3}\) IC3\(\triangle \text{IC3}\) IC4\(\triangle \text{IC5}\) IC5\(\triangle \text{TR1}\) TR1 TR2- TR3 TR4	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636 8300636 8300557 5012057 5011527 5011527 5011527 5011527 5011744 5020629 5020877 5011914 5012058 5020074 5370324 5021030 5011571	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 620 BC338-25 657 BSR56 051 BC858B	TR6- TR7 TR8 TR11 D5 D6- D7 R40- R41 R42- R43 R44- R45 R46- R49 R50- R51 R52 R55 R68 R69 R70	8341450 8341682 8341683 8341420 8320616 8320620 8320757 8300482 5011329 5011329 5012056 5011854 5020956 5021246 5021054 5020489 5021030	124 MC68HC05C- 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148 5.6MΩ 10% 1/8W 1.5kΩ 1% 1/4W 5.6MΩ 10% 1/4W 2.1kΩ 1% 1/4W 68Ω 5% 0.14W 68Ω 5% 0.14W 1Ω 10% 0.36W 10Ω 10% 0.30W 3.3Ω 10% 0.30W
IC2\(\triangle \text{IC3}\) IC3\(\triangle \text{IC3}\) IC4\(\triangle \text{IC5}\) IC5\(\triangle \text{TR1}\) TR1 TR2- TR3 TR4	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636 8300636 8300557 5012057 5012057 5011527 5021030 5011527 5011744 5020629 5020877 5011914 5012058 5020074 5370324 5021030 5011571 5021030	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 620 BC338-25 657 BSR56 051 BC858B	TR6- TR7 TR8 TR11 D5 D6- D7 R40- R41 R42- R43 R44- R45 R46- R49 R50- R51 R52 R55 R68 R69 R70 R71-	8341450 8341682 8341683 8341420 8320616 8320620 8320757 8300482 5011329 5011329 5012056 5011854 5020956 5021246 5021054 5020489 5021030	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148 5.6MΩ 10% 1/8W 1.5kΩ 1% 1/4W 5.6MΩ 10% 1/4W 2.1kΩ 1% 1/4W 68Ω 5% 0.14W 68Ω 5% 0.14W 68Ω 5% 0.14W 1Ω 10% 0.30W 1Ω 10% 0.30W 1Ω 10% 0.30W 1Ω 10% 0.30W
IC2\(\triangle \text{IC3}\) IC3\(\triangle \text{IC3}\) IC4\(\triangle \text{IC5}\) IC5\(\triangle \text{TR1}\) TR1 TR2- TR3 TR4	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636 8300557 5012057 5012057 5011527 5021030 5011527 5011744 5020629 5020877 5011914 5012058 5020074 5370324 5021030 5011571 5021030 5011601	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 620 BC338-25 657 BSR56 051 BC858B 7.5V 5% BYM10 100V 6.8kΩ2 1% 1/8W 12kΩ 1% 1/8W 12kΩ 1% 1/8W 24kΩ 1% 1/4W 18Ω 5% 0.30W 12Ω 10% 0.3W 5.1kΩ 1% 1/8W 47kΩ 1% 1/4W 15kΩ 1% 1/4W	TR6- TR7 TR8 TR11 D5 D6- D7 R40- R41 R42- R43 R44- R45 R46- R49 R50- R51 R52 R55 R68 R69 R70 R71- R72	8341450 8341682 8341683 8341420 8320620 8320757 8300482 5011329 5011329 5011853 5011329 5012956 5021246 5021054 5020956 5021246 5021054 5021054	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148 5.6MΩ 10% 1/8W 1.5kΩ 1% 1/4W 5.6MΩ 10% 1/8W 1.5kΩ 1% 1/4W 68Ω 5% 0.14W 68Ω 5% 0.14W 68Ω 5% 0.14W 1Ω 10% 0.30W 1Ω 10% 0.30W 1Ω 10% 0.30W 1Ω 10% 0.30W
IC2\(\triangle \text{IC3}\) IC3\(\triangle \text{IC3}\) IC4\(\triangle \text{IC5}\) IC5\(\triangle \text{TR1}\) TR1 TR2- TR3 TR4 D1- D2 D4- R1- R2 R8 R6- R7 R8 R12 R18 R19 R21 R22 R23 R24 R25 R23 R24 R25 R28 R33 R35	8341317 8341318 8340927 8341153 8320512 8320724 8320616 8300636 8300557 5012057 5012057 5011527 5011527 5011527 5011744 5020629 5020877 5011914 5012058 5020074 5370324 5021030 5011571 5021030 5011601 5011913	150 TDA8809T 147 SAA7310GP 111 41416C-20 113 SAA7220P/B 620 BC338-25 657 BSR56 051 BC858B 7.5V 5% BYM10 100V 6.8kΩ2 1% 1/8W 12kΩ 1% 1/8W 12kΩ 1% 1/8W 24kΩ 1% 1/4W 18Ω 5% 0.30W 12Ω 10% 0.3W 5.1kΩ 1% 1/8W 12kΩ 1% 1/4W 15kΩ 1% 1/4W 15kΩ 1 1/4W 17kΩ 20% 0.1W 3.3Ω 10% 0.30W 200kΩ 1 1/8W 91kΩ 1 1/8W 91kΩ 1 1/8W	TR6- TR7 TR8 TR11 D5 D6- D7 R40- R41 R42- R43 R44- R45 R46- R49 R50- R51 R52 R55 R68 R69 R70 R71- R72 R91	8341450 8341682 8341683 8341420 8320616 8320620 8320757 8300482 5011329 5011329 5011853 5011329 5012056 5021246 5021246 5021054 5020489 5021030 5021054 5021054	124 MC68HC05C4 101 0372 150 LM837 103 TCA0372 051 BC858B 051 BF550 051 BC818 40 217 4148 5.6MΩ 10% 1/3W 1.5kΩ 1% 1/4W 5.6MΩ 10% 1/4W 2.1kΩ 1% 1/4W 68Ω 5% 0.14W 68Ω 5% 0.14W 1Ω 10% 0.30W 1RΩ 1% 1/4W 160kΩ 1% 1/4W

20	32	51	103	138	150	152	209
E B	E C B	E B C	<u> </u>	[-]		-1	L
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Resistors not referred to are standard, see page 3-12

△ indicates that static electricity may destroy the component.

^{*} Specially selected or adapted sample.

R105 R112-	5021030 5021054	3.3Ω 10% 0.30W 1Ω 10% 0.30W	R115- R116	50 12 055	750Ω 1% 1/4W
R112-	3021034	12 10% 0.50 0	R117	5011855	1kΩ 1% 1/4W
R114	5011855	$1k\Omega/1\%/1/4W$	KIII	30(11699	1KS2 170 174VV
C1	4010220	100nF 10% 50V	C66		_
C3	4000287	220nF -20+80% 25V	C67	4000290	22nF 10% 50V
C4-	4010175	33nF 10% 50V	C68	4200551	33µF 20% 16V
C5			C71	4000326	680pF 5% 50V
C6- C7	4100243	8.2nF 5% 63V	C72- C73	4000234	47pF 5% 50V
C8	4200551	33µF 20% 16V	C74	4200551	33µF 20% 16V
C9	4130308	220nF 10% 63V	C75-	4000290	22nF 10% 50V
C10	4130234	470nF 10% 63V	C79		
C11-	4000290	22nF 10% 50V	C81	4010209	47nF 10% 50V
C13			C82	4010220	100nF 10% 50V
C14	4010157	10nF 10% 50V	C83	4130236	330nF 20% 63V
C15	4010209	47nF 10% 50V	C85	4130234	470nF 10% 63V
C16	4010170	2.2nF 10% 50V	C86	4010173	4.7nF 10% 50V
C17	4000241	100pF 5% 50V	C88-	4200551	33µF 20% 16V
C18	4000345	1nF 5% 50V	C89		ionav.
C19	4000286	470pF 5% 50V	C90	4000290	22nF 10% 50V
C20	4000233	220pF 5% 50V	C91-	4000234	47pF 5% 50V
C22	4130309	330nF 10% 63V	C92		
C23	4000287	220nF -20+80% 25V	C93	4000290	22nF 10% 50V
C27	4200551	33µF 20% 16V	C94	4200515	4.7µF 20% 25V
C28	4000290	22nF 10% 50V	C95	4200551	33µF 20% 16V
C31	4000234	47pF 5% 50V	C97-	4000290	22nF 10 % 50 V
C32	4130234	470nF 10% 63V	C98		
C33	4010170	2.2nF 10% 50V	C99	4200517	2.2µF 20% 50V
C34	4200551	33µF 20% 16V	C100	4200516	47μF 20% 16V
C35	4000290	22nF 10% 50V	C101	4100210	1.5nF 5% 63V
C36	4010253	18nF 10% 50 V	C102	4100279	2nF 2.5% 63V
C37	4130236	330nF 20% 63V	C103-	4100235	680pF 5% 63V
C38	4010170	2.2nF 10% 50V	C105		
C39-	4130304	22nF 10% 63V	C106	4100279	2nF 2.5% 63V
C40		D. 50. 0.51	C107	4100235	680pF 5% 63V
C41-	4130266	82nF 506 83V	C108	4100210	1.5nF 5% 63V
C42	1100010	0.0 17.70, 0077	C109	4000345	1nF 5% 50V
C43- C44	4100243	8.2πF 5% 63V	C110- C111	4200551	33µF 20% 16V
C45	4200403	100µF -20+50% 25V	C112	4000239	33pF 5% 50V
C47	4200403	100µF -20±50% 25V	C113	4010157	10nF 10% 50V
C51	4200541	22µF 20% 16V	C114	4000345	1nF 5% 50V
C52	= =		C200	4130311	680nF 10@n 63V
C53-	4010220	100πF 10% 50V			
P62	7220710	Plug 3 pol	P66-	7220711	Plug 4 pol
P63	7220709	Plug 2 pol	P67		(5) C
P65	7220709	Plug 2 pol	P68	7220710	Plug 3 pol
 X1	8090070	Crystal 11,2896MHz	X2	8090120	Crystal 4.000MHz

Bang & Olufsen

3-10

8001384, Connector PCB

PCB 09, 8001322 Light and motor control

P1 P2	7220883 7210672	Plug 7 pol Socket 14 pol	P3	7220883	Plug 7 pol
IC1 IC2	8340605 8341352	103 L272M 103 L2722	IC3	8341041	138 LM324
 TR1-	8320755	051 BC847B	TR14	8320927	032 BD436 020 BC337-25
TR2 TR3- TR7	8320616	051 BC858B	TR21 TR22 TR23	8320507 8320497 8320616	020 BC547B 021 BC858B
ΓR8- ΓR11	8320755	051 BC847B	TR24 TR25	8320755 8320616	051 BC847B 051 BC858B
FR13	8320755 	051 BC847B			
D1- D2	8300482	250 4148	D14 D16-	8300772 8300482	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
D4 D5-	8300774 8300482	250 5.1V 5% 250 4148	D19 D20-	8300023	209 1N4002
D8			D23		
——— D8	8300723	250 8.2V 2%	D24	8300482 - —	250 4148
R32	5011845		R48	5011598	
R33 R35	5011834 5011845	845Ω 1% 1/8W 8,2Ω 1% 1/4W	R49 R50	5011838 5011760	
R37	5011834	845Q 1% 1/8W	R67	5011601	
R38	5011527	12kQ 1% 1/8W	R68	5011600	
R39	5011752	12.7kΩ 1% 1/8W	R69-	5011601	200kΩ 1% 1/8W
R40 R41	5011527 5011752	12kΩ 1% 1/8W 12.7kΩ 1% 1/8W	R71 R74	5011595	26.7kΩ 1% 1/8W
R42	5021151	1.5Ω 1% 1/4W	R78	5011600	650
R43	5011834		R82-	5011598	24.9kΩ 1% 1/8W
R45 R47	5021151 5011854	1.5Ω 1% 1/4W 2.1kΩ 1% 1/4W	R83		
C1	4010220		C10		
C3	4010220		C11	4010157	10nF 10% 50V
C4	4200484		C12 C13	4010166 4200484	100nF -20+80% 50V 10µF 20% 25V
C5- C6	4000287	220RF -20+3070 2.3 Y	C14	4010157	10nF 10% 50V
C7	4200477	4.7µF 20% 25V	C15-	4010157	10nF 10% 50V
C8-	4000345	1nF 5% 50V	C16 		
P76		Plug 7 pol	P80		TO 0
P77 P78-		Plug 4 pol Plug 2 pol	P81	7220710	Plug 3 po!
:C1Δ IC2Δ IC3Δ	8341453 8341578 8341600	152 80C31	IC4△ IC5△	8341439 8341612	103 MCM44182 150 TL7705
TR1- TR2	8320755	051 BC847B			
C1-	4000287	220nF- 20 +80% 25V	C12- C13	4000241	100pF 5% 50V
C2 C3	4000241	100pF 5% 50V	C15	4000287	220nF-20+80% 25V
C4-	4000287	220nF -20+80°n 25V	C16	4200826	
C9	100000:	ACT DECK EAST	C17 C18	$\frac{4010166}{4000351}$	100nF 1.5nF 5% 50V
C10 C11	4000234 4000276		CIO	4000301	1.5HE 370 30 Y
I.1	80223 22	Coil 57kHz	L2+ L4	8020816	Coil 1.5µH
P71 P72	7220709 7220711	Plug 2 pol Plug 4 pol	P73	7220710	Plug 3 pol
X1	8090126	Crystal 4.332MHz			

PCB 10, 8001351 Radio Data System PCB 29, 8001781 RDS, New Version (List of electrical parts See Service Manual f. BeoSound Ouverture, 3538837)

20	51	53	141	150	209	250	255
	£ 5			i-+	≒⊏J⊢≟	<u> </u>	$\bigcap_{A \subset A}$

Resistors not referred to are standard, see page 3-12

 Δ indicates that static electricity may destroy the component.

PCB	11, 8	001320
Righ	t door	Sensor

PCB	17,	805011	1
FM T	une	er	
РСВ	17,	805011	12
FM T	une	er.	

type 2604, 2609

• only in types 2604, 2609

PCB 18, 8001382 Headphone

PCB 20, 8001377 Disc detector

TR1 TR2-	8320616 8320615	051 BC858B 051 BC848B	TR5 TR6	8320616	051 BC858B
R4	5012068	47.5Ω 1% 1/8W	R16	5012267	10Ω 5% 0.14W
C1	4010220	100nF 10% 50V	C5	4010209	47nF 10% 50V
C2	4130171	330nF 20 % 63V	C6	4010173	4.7nF 10% 50V
C3	4200431	10µF 2 0 % 1 6V	C7	4000286	470pF 5% 50V
C4	4010132	1nF 10% 50V	C8	4010209	47nF 10% 50V
L1	8020870	Coil 3mH 3%			
P80	7220710	Plug 3 pel	P82	7220727	Plug 5 pol
P81	7220728	Plug 6 pol			
TR1	8320610	053 BF995	TR3-	8320672	051 BFS20
TR2	8320766	BF995	TR4		
D1- D4	8300301	209 BB204			
R32- R34	5370253	47kΩ 20% 0.1W			
C1	4000331	6.8pF 50V	C16	4090332	8.2pF 50V
C1	4000275	15pF 5% 50V	C17-	4000260	5pF 50V
C2	4000257	27pF 5% 50V	C18		en-variable of
C3-	4010132	1nF 10% 50V	•C18	4000228	12pF 5% 50V
C6	100005::	OF T 50/ 507/	C19-	4010132	1nF 10% 50V
C7	4000257	27pF 5% 50V	C20	1000075	TEMPORATEDA
C8	4000332	8.2pF 50V	C21	4000275	15pF 5% 50V
C8	4000275	15pF 5% 50V	C22	4000228	12pF 5% 50V
C9 C9	4000258	4pF 50V 12pF 5% 50V	C23 C24	4010132	1nF 10% 50V 10nF 10% 50V
	4000228 4000330	5.6pF 50V	C25	4010157 4000294	0.5pF 50V
C10 C12	4010132	1nF 10% 50V	C26	4200512	1µF 20% 50V
C13	4010132	68pF 5% 50V	C27-	4000321	220pF 5% 50V
C14	4010157	10nF 10% 50V	C29	4000021	22001 0.7700
	6850158	Coil 70nH	 L5		
1.2	6850157	Coil 115nH	L6	8020632	Coil 0.68µH 20%
L3	8020577	Coil 2.2µH 10%	1.7	8020557	Coil 10.7mH ±3.2µH
L4-	6850157	Coil 115nH	L8	6850159	Coil 100uH
P1 P2	7220129 7220212	Plug 2/2 Plug 3/3	Р3	7220210	Plug 4/4
C79- C80	4010105	1nF 10% 50V			
P26	7220711	Plug 4 pol	P103	7210510	Plug Minijack
1C1	8330235	Optocoupler			
TR2- TR3	8320615	051 BC8483			

Beolah 2500 PCB 21, 8001266 Transformer

PCB 22, 8001271 Active crossover network and power amplifier

D1- D2	8300428	209 1N4007			
C1	4200821	1000µF -20+50% 6.3V			
F1- F2	6600066	T2A 250V	F3	6600109	2.aA 250V
TF1	6609040	2.5A Termo			
P1- P2	7220406	Plug 2 pol			
ί¢1Δ ί¢2Δ	8341081 8350069	150 LM833 141 Hybrid STK4191	IC3- IC4∆	8341022	150 4558
TR1	8320755	051 BC847B	TR9		
TR2	8320752	051 BC817-40	TR10	8320753	051 BC856B
TR3	8320497		TR11		051 BC847B
TR4	8320503		TR12		051 BC848B
TR5 TR7-	8320752 8320755		TR13	8320616	051 BC858B
D1- D3	8300432	25 0 4148	D8- D9	8300584	25 0 Z15V
D4	8300487	Bridge circuit	D12	8300023	209 1N4002
D5-	\$300023	209 1N4002	D13-	8300482	
D6			D13		
D7	9300482	250 4148			
R3	5011575	20kΩ 1% 1/8W	R20		
R16	5021225	10kΩ 1% 1/8W	R64	5020159	100Ω
R19-	5020489	10Ω 10% 0.30W			
C1-	4010173	4.7nF 10% 50V	C35		
C4	_		C36	4200688	
C5	4200517	2.2µF 20% 50V	C37	4200510	10µF 20% 16V
Ç6	4200784	22µF 20% 16V	C38 C39	4200525	22µF 20% 10V 47µF 20% 50V
C7 C8	4200510 4010170	10µF 20% 16V 2.2nF 10% 50V	C41	4200688 4200561	10μF 20% 50V
C9-	4200799	3300µF 20% 50V	C41	4010216	22nF 10% 100V
C10	1430100	D. (0.) p1 20 10 00 1	C43	4200561	10μF 20% 50V
C11-	4010216	22nF 10% 100V	C44		
C15			C45-	4130234	470nF 10% 63V
C16	4200858	220µF 20 % 50V	C46		9007.09.0000712
C17-	4010220	100nF 10% 50V	C47	4010166	100nF -20+80% 50V
C19	4010167	1012.100/5031	C48-	4010179	10nF -20+80% 50V
C20 C21	4010157 4010173	10nF 10% 50V 4.7nF 10% 50V	C52 C55-	4010220	100nF 10% 50V
C22	4010220	100nF 10% 50V	C56	4010880	103111 1010 001
C23	4000290	22nF 10% 50V	C57	4200486	4.7µF 20% 50V
C24	4010173	4.7nF 10% 50V	C58-	4010176	10nF -20+80% 50V
C25	4010220	100nF 10% 50V	C59		
C26	4000345	1nF 5% 50V	C60-	4010170	2.2nF 10% 50V
C27	4200525	22µF 20% 10V	C62	1010277	10-12 90 000 503
C28 C29	$\frac{4010170}{4200517}$	2.2nF 10% 50V 2.2µF 20% 50V	C63- C64	4010176	10nF -20+80% 50V
C30-	4130233	220nF 20% 63V	C65	4010166	100nF -20+80% 50V
C31	. 100200	Magazine OO F	C56	4010170	2.2nF 10% 50V
C34-	4130233	220nF 20% 63V	C67	4200561	10μF 20% 50V
P2	7220212	Plug 3 pol	P8	7220185	Plug 3 pol
P3	7220206	Plug 5/4 pol	P9	7220710	Plug 3 pol
P4- P5	7220403	Plug 4 pol	P10 P16	7220279 7230711	Plug 2 pol Plug 4 pol
RL1	7600069	Relay 24V		1 1 1	
		<u> </u>			
P15	7210394	Socket 4 pol			
P14	7210394	Socket 4 pol			

PCB 23, 8001400 Bass level adjust PCB 24, 8001401 Treble level adjust Beolab 2500 PCB 21, 8001266 Transformer

PCB 22, 8001271 Active crossover network and power amplifier

D1- D2	8300428	209 1N4007			
C1	4200821	1000μF -20+50° ₀ 6.3V			
F1- F2	6600066	T2A 250V	F3	6600109	2.5A 250V
TF1	6609040	2.5A Termo			
P1- P2	7220406	Plug 2 pol			
IC1A	8341081	150 LM833	IC3-	8341022	150 4558
1C2Δ	8350069	141 Hybrid STK4191	IC4A	0341022	
TR1	8320755	051 BC847B	TR9		
TR2	8320752	051 BC817-40	TR10	8320753	051 BC856B
TR3	8320497	020 BC547B	TRII	8320755	051 BC847B
TR4	8320503	020 BC557B	TR12 TR13	8320615	051 BC848B
TR5 TR7-	8320752 8320755	051 BC817-40 051 BC847B	IKIS	8320616	051 BC858B
D1-	8300482	250 4148	D8-	8300584	250 Z15V
D3 D4	8300487	Bridge circuit	D9 D12	8300023	209 1N4002
D4 D5-	8300023	209 1N4002	D13-	8300482	250 4148
D6	1000000		D17		
D7	8300482	250 4148			
R3	5011575	$20 \mathrm{k}\Omega$ 1% 1/8W	R20		
R16	5021225	$10k\Omega$ 1% 1/8W	R64	5020159	100Ω
R19-	5020489	10Ω 10% 0.30W			
C1-	4010173	4.7nF 10% 50V	C35		
C4			C36	4200688	
C5	4200517	2.2µF 20% 50V	C37	4200510	10μF 20% 16V 22μF 20 % 10V
C6 C7	4200784 4200510	22µF 20% 16V 10µF 20% 16V	C38 C39	4200525 4200688	47µF 20% 50V
C8	4010170	2.2nF 10% 50V	C41	4200561	
C9-	4200799	3300µF 20% 50V	C42	4010216	22nF 10% 100V
C10			C43-	4200561	10μF 20 % 50V
C11-	4010216	22nF 10% 100V	C44		450 E 100 4011
C15 C16	4200858	220µF 20% 50V	C45- C46	4130234	470nF 10% 63V
C17	4010220	100nF 10% 50V	C47	4010166	100nF -20+80% 50V
C19	101000	100111 10011	C48-	4010176	10nF -20+80% 50V
C20	4010157	10nF 10% 50V	C52		
C21	4010173	4.7nF 10% 50V	C55-	4010220	100nF 10% 50V
C22 C23	4010220 4000290	100nF 10% 50V 22nF 10% 50V	C56 C57	4200486	4.7µF 20% 50V
C24	4010173	4.7nF 10% 50V	C58-	4010176	10nF -20+80% 50V
C25	4010220	100nF 10% 50V	C59	101010	10111 201100111100
C26	4000345	1nF 5% 50V	C60-	4010170	2.2nF 10% 50V
C27	4200525	22µF 20% 10V	C62		and a second contract of the second contract
C28	4010170	2.2nF 10% 50V	C63-	4010176	10nF -20+80% 50V
C29 C30-	4200517 4130233	2.2µF 20% 50V 220nF 20% 63V	C64 C65	4010166	100nF -20+80% 50V
C31	4130233	220HF 2000 03 V	C66	4010170	2.2nF 10% 50V
C34-	4130233	220nF 20% 63V	C67	4200561	10μF 20% 50V
P2	7220212	Plug 3 pol	P8	7220185	Plug 3 pol
P3	7220206	Plug 5/4 pol	P9	7220710	Piug 3 pol
P4- P5	7220403	Plug 4 pol	P10 P16	7220279 7220711	Plug 2 pol Plug 4 pol
RL1	7600069	Relay 24V			
P15	7210394	Socket 4 pol			
P14	7210394	Socket 4 pol			
1.14	1210394	Sucket 4 poi			

PCB 25, 8001402 NTC
PCB 26, 8001403
ON/Standby PCB

R 5220036 330kΩ 10% 1/2W

TR1 8320755 **051** BC847B TR2- 8320753 **051** BC856B

D1 8330236 **255** Bicolor

R13- 5011854 2.1kΩ 1% 1/4W

R17

P19 **6276076** Plug pin 3 pol

Standard Resistors: Resistors 5% 1/2 W

- 5	xl	x10	x100	x1K	x10K	x100K	x1M	x10M
1.0 1.2 1.5	5011406 5010727	5011000 5011001 5011002	5011014	5011028 5011030 5011031	5011045	5010313 5011058 5011059	5011069 5010421 5011071	5011083
1.8 2.2 2.7	5010857 5011335 5011612	5010787 5010708 5010803		5011033 5011034 5010055	5011047 5011048 5011049	5011061 5011062	5011072 5011074 5011075	
3.3 3.9 4.7	5010255 5010765	5011007 5010782 5011009	5011019 5011021 5011022	5011037 5010700 5010035	5011051 5010036	5011063 5011065	5010381 5010392 5011078	
5,6 6.8 8.2	5010874	5011010 5011011 5011012	5011023 5011024 5011026		501081 0 5010038	5011066 5011067 5011068	5011079 5011080 5011081	

Resistors 5% 1/4 W

	x1	x10	x100	x1K	x10K	x100K	x1M	x10M
$\frac{1.0}{1.2}$ $\frac{1.5}{1.5}$	5010592 5011348	5010506 5010595 5010468	5010065 5010128 5010057	5010040 5010153 5010247	5010059 5010046 5010053	5010049 5010047 5010063	5010054 5010665 5010093	5010638
1.8 2.2 2.7	5010682 5010925	5010822 5010448 5010403	5010362 5010092 5010000	5010066 5010064 5010298	244555	5010120	5010791 5010245 5010431	
3.3 3.9 4.7	5011377 5010888		5010044 5019070 5010058	5010076 5010069 5010048	5010075 5010060 5010045	5010073	5010848 5010714 5011513	
5.6 6.8 8.2	5010706 5010904 5010880	5010151 5010039 5010056	5010067 5010144 5010068	5010041 5010052 5010154	5010061 5010062 5010091	5010071 5010074 5010505	5010658	

Resistors 5% 1/8 W

	xi	x10	x100	x1K	x10K	x100K	x1M	x10M
1.0 1.2 1.5		5011464 5011351 5011463	5011357 5011084 5011443	5010816 5011442 5011178	5010935 5011338 5011364	5011440 5011341 5011398	5011459 5011175 5011460	502087
1.8 2.2 2.7	5011632	5011376 5011471	5011350 5010886 5011355	5011361 5011353 5011362	5011344 5010833 5011366	5011468 5011369 5011370	5011342 5011478	
3.3 3.9 4.7	5011363	5011347 5011438 5011038	5011337 5011817 5011441	5010827 5011157 5011363	5011346 5011457 50109 3 7	5011371 5011372 5011343	5011462 5020876 5011611	
5.6 6.8 8.2		5011412 5011356 5011466	5011358 5011336 5011354	5010885 5010839 5011339	5011166 5011367 5011368	5011340 5011458 5011373		

Resistors SMD 2% 1/8 W SMD 5% 1/8 W

4.7	5011363	5011038	5011441	5011363	5010937	5011343	5011611	
5.6 6.8 8.2			5011336	5010885 5010839 5011339	5011367			
	5 ° a	2%	2%	2%	2%	2%	5%	5%
	x1	x10	x100	x1K	x10K	x100K	x1M	x10M
1.0 1.1 1.2	5011623 5011624 5011625	5011647 5011648 5011649	5011218 5011669 5011219	5011227 5011681 5011682	5011241 5011689 5011490	5011256 5011694 5011257	5011267 5011707 5011708	5011730
1.3	5011626 5011627	5011650 5011651	5011670 5011220 5011671	5011683 5011228			5011709 5011710	

 1.1
 5011924
 5011648
 5011669
 5011681
 5011689
 5011694
 5011707

 1.2
 5011625
 5011649
 5011219
 5011682
 5011689
 5011697
 5011708

 1.3
 5011626
 5011650
 5011670
 5011683
 5011242
 5011258
 5011709

 1.5
 5011627
 5011651
 5011220
 5011243
 5011258
 5011710

 1.6
 501628
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 5011671
 5011684
 5011690
 5011695
 5011711

 1.8
 5011629
 5011653
 5011672
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 5011260
 5011712

 2.0
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 5011885
 5011691
 5011665
 5011712

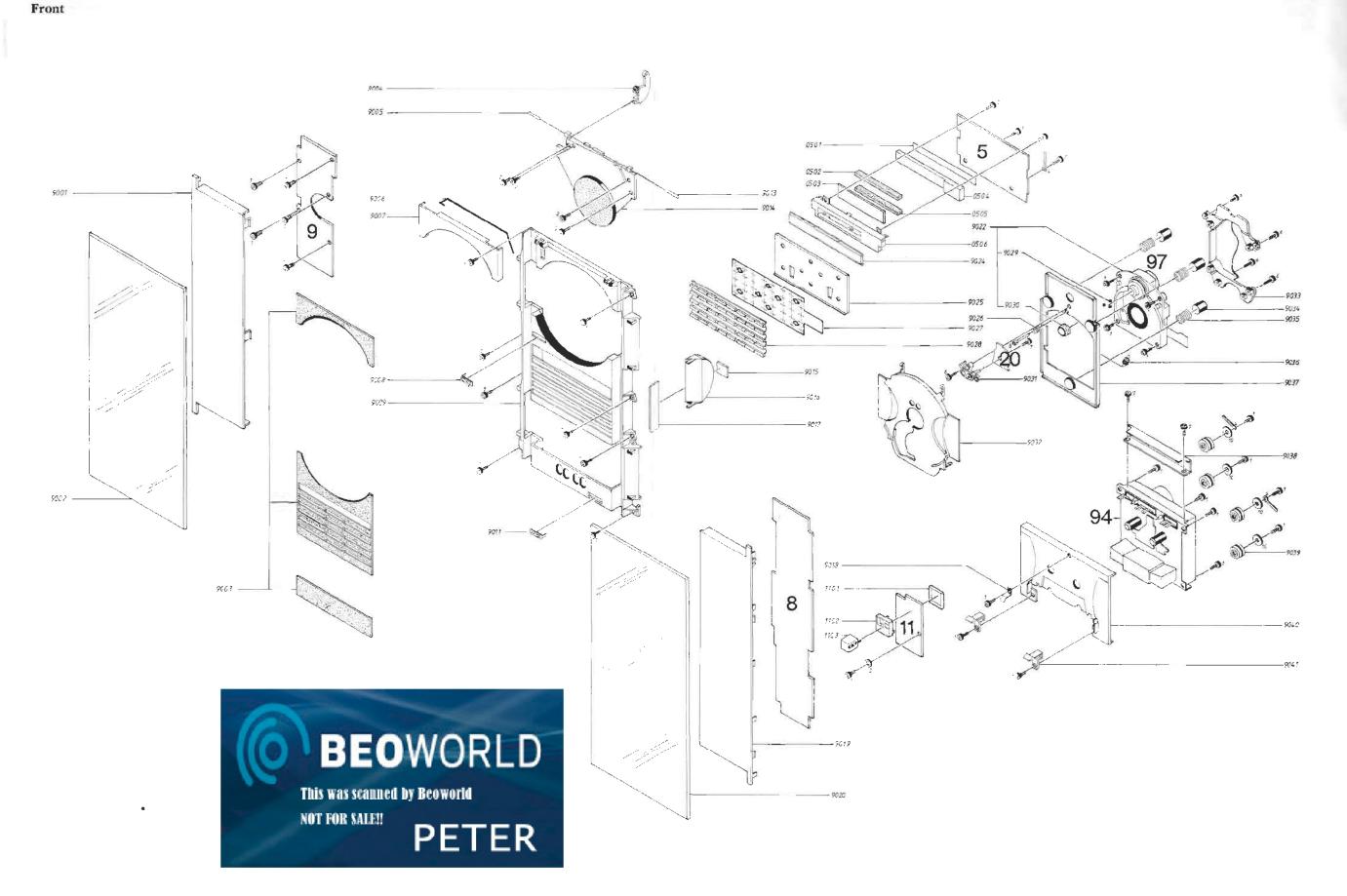
 2.4
 5011634
 5011656
 5011675
 5011686
 5011246
 5011697
 5011715

 2.7
 5011635
 5011677
 5011686
 5011247
 5011697
 5011716

 3.0
 5011731
 5011658
 5011499
 5011224
 5011265

(Glue dots, approx. 200, part no. 3181932).

PCB 23, 8001400 Bass level adjust PCB 24, 8001401 Treble level adjust LIST OF MECHANICAL PARTS



4-2

4-2

4-2

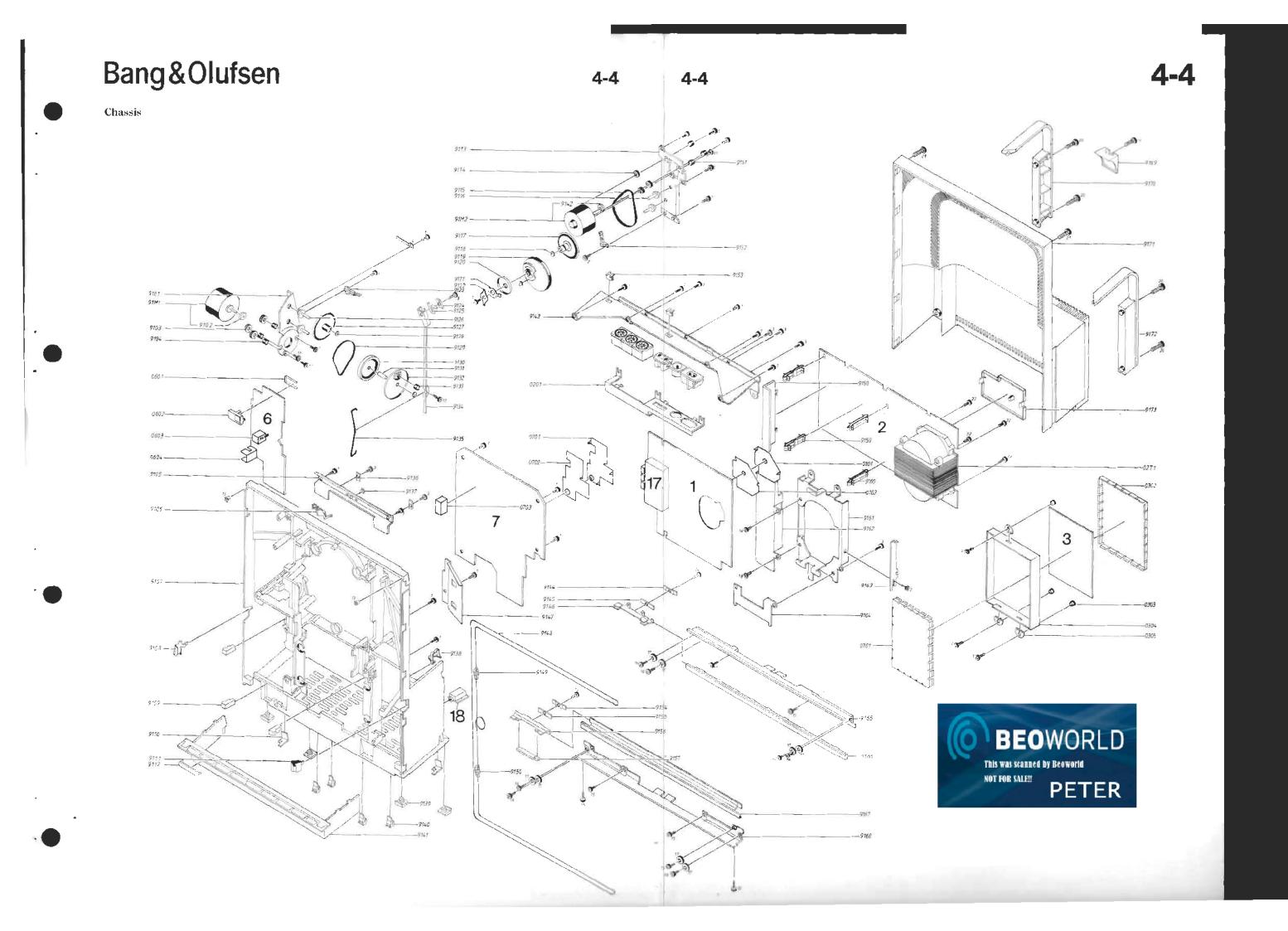
Front

05 modul 0501 0502 0503 0504 0505 0506	8001309 8001383 7500272 8330259 3131365 2574078 3151256	Display Backlight Contact rubber Contrast screen Housing with tape Rubber support Holder			
08 modul	8005275 8001384	CD Connector PCB			
09 modul	8001322	Light and motor control			
11 modul	8001320	Right door Sensor			
1101	3300125	Screen, inner			
1102	3300126	Screen, outer			
1103	3304135	Shielded box			
9001	3162320	Cover, left	9022	8420172	CD mechanism
9002	3162330	Glass, left	9024	3 32213 5	Window
9003	3904111	Alu foil with tape	9025	2572045	Spacer
9004	3017028	Wheel	9026	2812128	Spring
9005	2830111	Cylinder pin	9027	7500270	Contact spring
9006	2819251	Spring	9028	2776192	Set of buttons
9007	3164877	Cover	9029	2917025	Balī
9008	2816257	Ground spring	9030	2311036	Clip
9009	3451185	Front piece with	9031	3152764	Holder
		alu foil	9032	3162338	Cover
9011	2816257	Ground spring	9033	3300121	Screen
9013	2830111	Cylinder pin	9034	3333017	Rubber damping
9014	3152726	Clamper	9035	2812132	Compression
9015	8230100	Print with lamp			spring
9016	3131356	Light cabinet	9036	2810254	Tension spring
0010	8230100	Lamp, sidelight	9037	3112332	Chassis
9017	3322145	Window	9038	3162342	Cover
9018	2816256	Spring	9039	2938277	Bushing
9019	3162319	Cover, right	9040	3162337	Cover
9020	3162331	Glass, right	9041	2816255	Spring
94	8422070 8422085	Tape mechanism Tape mechanism, N	ew version		1
97	8420172	CD mechanism			÷

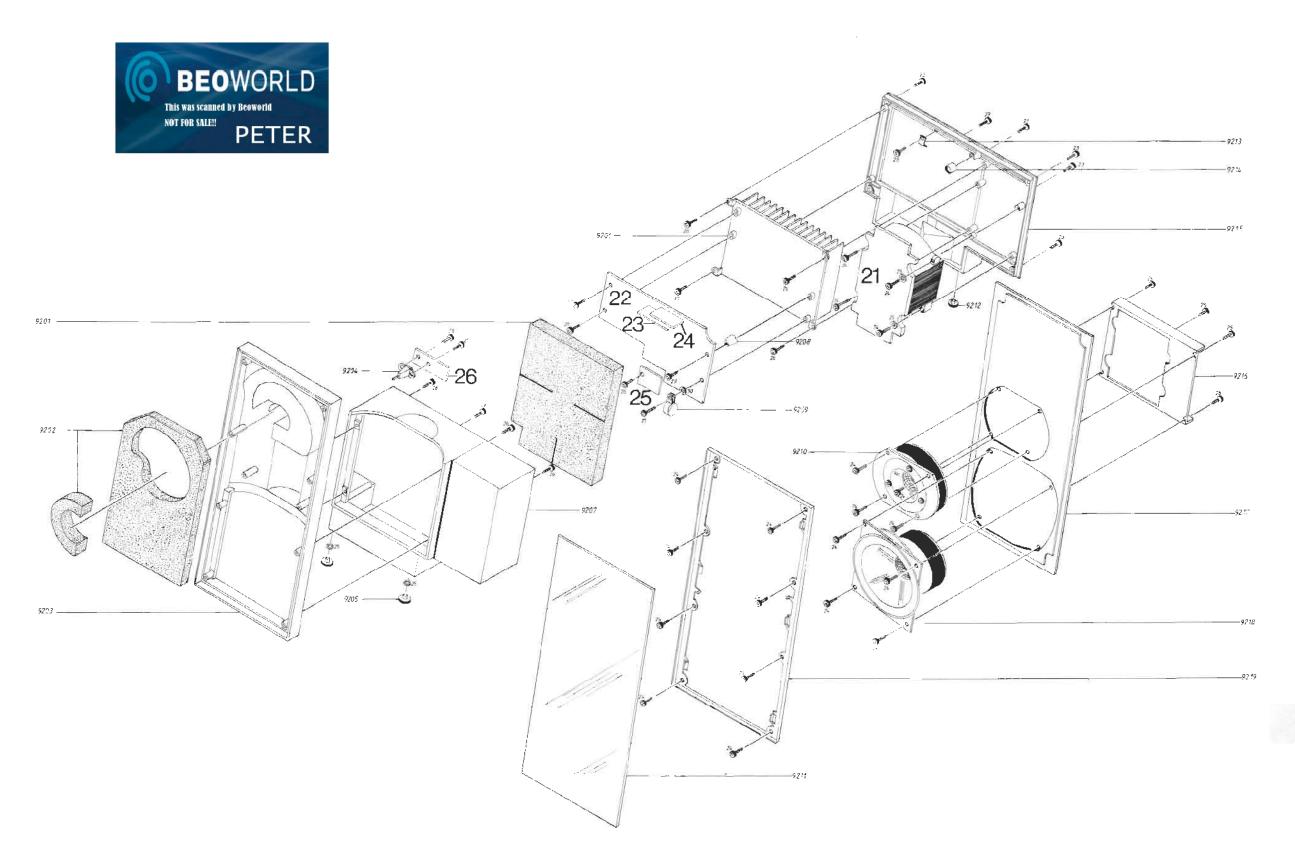
8420172 CD mechanism

¢	1	į	ŠŘ	ķ	į	8

01 modul		FM/AM FM/AM, type 2609	0101 0102	3302504 3170 2 93	Screen Insulation piece		9164 9165 9166	$\frac{2548247}{3013083}$	Mounting plate Bracket Guide rai!	9169 9170 9171	3430550	Handle, right Rear cover
02 modul	$\frac{8001378}{8001379}$	LF 15 V		$\frac{7210418}{7219087}$			9167 9168 ————————————————————————————————————		Guide rail Bracket	9172 9173	3300120	Handle, left Screen
0201	3152725	Power link Holder Socket, actial	02 T1		Socker FM Transformer	Survey of screws and washers	91M2 ————————————————————————————————————	8400189		12	2834109	Shafi
03 modul 0301 0302	3162328	Microcomputer Lid. small Lid, large	0303 0304 0305	2938281 3322130 2641140		Survey of sciews and washers	2 3 4 5	2036036 2039033 7530119 2622052	Screw 2,5x4 Screw 3x6 Solder tag Washer 3,2x8x1	13 14 15 16	2389065 2036066 2011050 2364060	Nut Screw 2,5x2,5 Screw 3x8 Rivet
06 modul 0601		IR Transceiver and left door Sensor Screen, inner	0602 0603 0604		Screen, outer Shielded box Screen		6 7 8	2011032 2038127	Screw 3x8 Screw 2.5x6 Screw transport protection Screw 3x5	17 18 19 20 21	2039062 2038116 2038130	Cord pulley Screw 3x5 Screw 3x20 Screw 3x25 Screw 3x10
07 modul		Tape Tape poten-	0701 0702	3302500 3170295	Screen Insulation piece		10 11	2622247	Washer 3,2x10,2x1 Screw 2,6x6	22		Screw 3x12
	8001351	tiometer Radio data system	0703	3302513	Screen	Parts not shown		3397824 3946038	Outer carton Foam packing Foil Cable cover		3501370 3501371	User's guide, NL User's guide, F User's guide, I User's guide, E
	8001781	RDS, New version						2042240 6100216	Screw, 4 x 10 Mains cable, 510mm		3502943 3502944	Setting-up guide, DK Setting-up guide, S
17 modul		Tuner, type 2604, 2609							Mains cable, 705mm Signal cable, 520mm		3502946	Setting-up guide, SF Setting-up guide, GB
	8001382 7210510	Headphone Socket						6100245	Signal cable, 585mm Mains cable, 2,5A Mains cable, UK			Setting-up guide, D Setting-up guide, NL
20 modul		Disc detector		- 33				6100311 3501364	Mains cable, type 2703, 2708 User's guide, DK		$\frac{3502950}{3502951}$	Setting-up guide, F Setting-up guide, I Setting-up guide, E
9101 9102		Belt pulley	9134 9135	2854153 2819255	Spring			3501366 3501367	User's guide, S User's guide, SF User's guide, GB User's guide, D			Setting-up guide, USA Setting up guide, CDN
9103 9104 9105 9106	2938237 2930074 3031314 3015167	Fitting	9136 9137 9138	3151291 3010033 3152747	Stop for transport screw	Wall bracket 1208726			Outer carton Pycofoam			Screws assortment Wire holder
9107 9108 9109 9110	3114369 3152732 3152735 2642030	Chassis Holder Holder	9139 9140	3103303	Foot Clips f. angle adjustment	1208726		3152790	Holder for antenna Wall plate	- 		assortment
9111 9112 9113 9114 9115 9116 9117 9118 9119 9120 9121 9122	2732092 2831071 2722053 2390001 2700093 2724087 2815029 2815032	Window Holder Bushing Belt Shaft Belt pulley Lock washer Gear wheel Cord pullcy Ground spring Leaf spring	9141 9142 9143 9144 9145 9146 9147 9148 9149 9150 9151	2391087 3152727 3358279 3955042 2810133 2810155 2930074 7400322	Pulley Bracket Locking piece Locking piece Holder Heat sink Cord Tension spring Spring Bushing Switch 1 pin	Survey of wire bundles		6276386 6276401 6276402 6276403 6276404	AM socket Tape head Transmission diode, right Transmission diode, left Reception diode, right Reception diode, right Reception diode, left Switch (motor), CD motor, Disc			2P11 - 8P67 2P16 - 7P56 2P15 - 8P65 2P12 - 8P66 2P17 - 5P41 2P19 - 7P53 2P18 - 6P49 2P25 - HTLFP26 2P22 - 7P55 2P24 - MotP76 3P36 - 5P41 3P29 - 7P54
9123 9124 9125 9126 9127 9128 9129 9130 9131 9132 9133	3035062 2819254 2831070 2700092 2390001 2732075 2722054 2905128 2700094	Shaft Gear wheel Lock washer Belt Belt pulley	9153 9154 9155 9156 9157 9158 9159 9160 9161 9162 9163	2391087 3152727 3035060 3358275 3030116 3030117 3152730	Locking piece Locking piece Holder Slide shoe Heat sink Hinge Hinge Holder Heat sink			6276369	detector, Micro switch, motor for lid Wire bundle for back cover 2P20 - 3P28 2P13 - 1P05 2P23 - 3P33 2P21 - 1P07 2P14 - 1P03 3P31 - 1P06			3P32 - 6P46 3P36 - 8P68 3P27 - MotP77 IRLP48 - 6P82 MotP80 - 5P46



Beolab 2500



Survey of screws and washers

Parts not shown

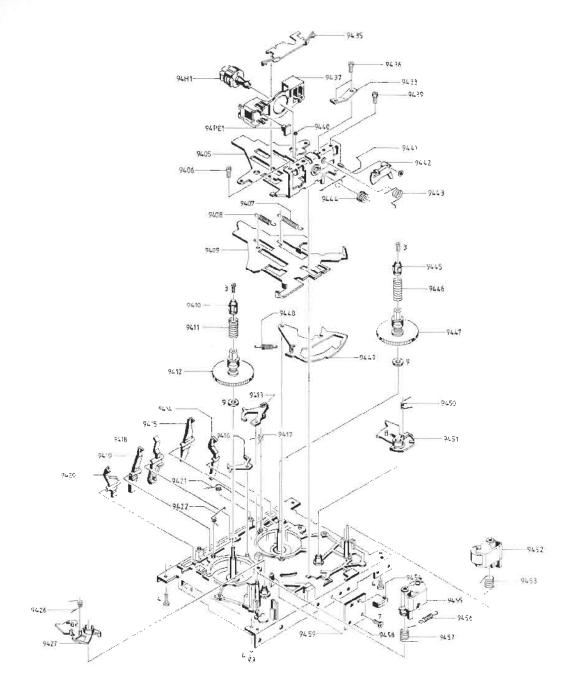
Survey of wire bundles

Dool	lab.	2500
Check	150 (1)	V 1 1 1 1

21 modul	8001266	PCB transformer			
22 modul	8001271	Active Crossover network and power amplifier			N 16 0
23 modul	8001400	Bass level adjustment			
24 modul	8001401	Treble level adjustment			
25 modul	8001402	NTC			
26 modul	8001403	ON/Standby PCB			
9201 9202 9203 9204 9205 9206 9207 9208 9209 9210 9211	3922054 3922053 3451206 3152738 3103327 3458734 3430568 3430569 2576263 3152214 8480227 1603673 1603674 1603675 1603676 1603679 1603644 1603642 1603644 1603644 1603648	Front part Holder Foot, adjustable Heat sink Rear part, left Rear part, right PCB holder Cable holder Loudspeaker, 16\(\Omega\) Cloth frame, jade Cloth frame, cerise Cloth frame, white Cloth frame, black Cloth frame, cobalt Cloth frame, grey Cloth frame, silver Cloth frame, grey Cloth frame, green Cloth frame, green Cloth frame, green	9212 9213 9214 9215 9216 9217 9218 9219	3103317 2530540 2938285 3452643 3452645 3031324 3440117 3440119 8480226 3451070	
23 24 25 26	2015124 2015139 2389098 2015142	Screw 3,5x16	27 28 29 30	2011050	Screw 3x8 Screw 3,0x8 Screw 3x16 Washer
	3947350 3947344	Outer carton Foam packing 1,5m mains cable. USA Tape Foam tightening Set of packing, rear left Set of packing, mains plug Set of packing, mains plug		3340092 3340093 3340095 3340096	Set of packing, powerlink Set of packing, cabinet Set of packing, treble Set of packing, rear right
	6276444 6276293 6200044 6276294	Loudspeaker Mains plug, male Mains plug, female 8 pol DIN Ribbon cable 22P8-Transformer Main cable, type 620 Wire bundle f, trafo Wire bundle f, trafo	right		

4-6

Tape deck



Tape deck

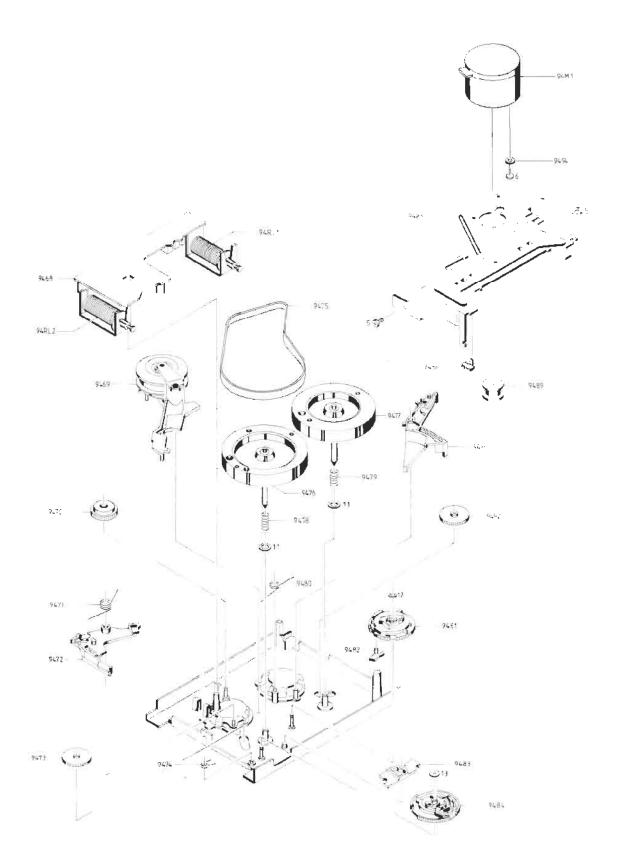
94modul	8422070	Tape deck	9436	2037002	Screw, azimuth adj
	8422085	Tape deck, New version	9437	3131364	Housing, tape head assembly
9405	3112372	Slide, tape head assembly	9438	2816262	Spring, azimuth
9406	2037001	Screw, heigt adj.	9439	2037001	Screw, height adj.
9407	2810257	Spring, tape head	9440	2917027	Ball
	139.57%	assembly	9441	2818102	Locking spring
9408	2810255	Spring, slide plate	9442	2851225	Gear arm
9409	3014089	Slide plate	9443	2818103	Spring f. gear arm
9410	3164872	Cap, turntable	9444	2700099	Gear, tape head
9411	2812135	Spring, turntable	9445	3164873	Cap, turntable
9412	2776165	Turntable	9446	2812136	Spring, turntable
9413	2851224	Arm, brake F.	9447	2726165	Turntable
9414	2851223	Arm, record 2	9448	2810258	Spring f. arm, tape
		sensor			direction
9415	2851222	Arm. Cr sensor	9449	2851226	Arm, tape
9416	2851218	Arm, brake R.			direction
9417	2818101	Spring, brake F	9450	2818104	Spring, arm F.
9418	2851221	Arm, cassette	9451	2851227	Arm, play F.
		sensor	9452	2794146	Thrust roller F.
9419	2851220	Arm, metal sensor	9453	2818105	Spring, thurst
9420	2851219	Ann, record 1			roller F.
		sensor	9454	2311037	Wire holder
9421	2818100	Spring f. switch	9455	2794149	Thrust roller R.
9422	2818099	Spring, brake R	9456	2810257	Spring, thrust
9426	2818098	Spring, arm play R			roller R.
9427	2851217	Arm, play R.	9457	2818106	Spring, thrust
9428	3112371	Chassis			roller R.
9435	2816261	Spring, tape head	9458	6141575	PCB for tape head
		assembly	9459	3634041	Mirror f. PE1

94 H1 8600115 Tape head w. wires 6276498 Set of wires from tape head to tape head PCB 6276435 Wire with P4 for tape head

94PE1 8004902 Opto Coupler



Tape deck



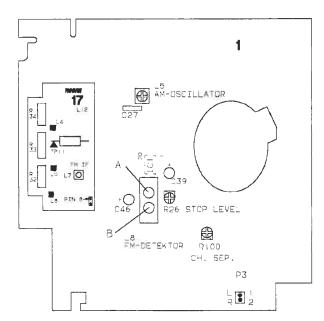
Tape deck 9468 8004901 PCB for tape 9479 2812137 Spring, flywheel 2818109 Spring mechanism 9480 9469 Cluth, fast 9481 2700102 Cam wheel Arm foreward rewind 9482 2851231 2851232 Arm, pause 9470 2700104 Wheel, autostop 9483 9471 2818108 Spring 9484 2700103 Cam, wheel 2851228 Arm 3112373 Chassis, flywheels 9473 2700100 Gear wheel 9488 2905131 Bearing, flywheels 2818107 Spring, cam wheel 9474 2722061 Pulley . 9489 9475 2732101 Belt 2851230 Arm 2794147 Flywheel, right 2700100 Gear wheel 9477 2794148 Flywheel, left 2932133 Rubber bushing 94782812137 Spring, flywheel 2932134 Gummi dæmper 94S1/4/5 7400411 Switch 7400412 Switch 9482/3 94RL1 8020898 Solenoid, play 94RL2 8020899 Solenoid, «. 94M1 8400188 Motor Survey of screws and washers 2036073 Screw 2.1 x 4 2013144 Screw 3 x 8 2036074 Screw 2.6 x 4 2036076 Screw f. motor 2036072 Screw 2 x 4 2390113 Washer 2390111 Washer 2390112 Washer 2390109 Washer 2390110 Washer

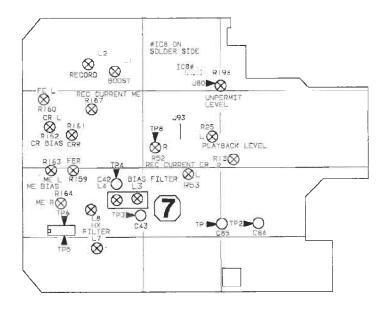


Bang&Olufsen

JUSTERINGER

ADJUSTMENTS





HF-JUSTERINGER

5-1

Bemærk! Foretag HF-justeringer i testmode, for at lette betjeningen af apparatet.

TESTMODE: Se afsnit 7. I testmode kan modtageren skifte mellem de frekvenser, der benyttes ved justering. Benyt følgende tabel til at vælge frekvenser.

Tryk:	Frekvens:	Press:	Frequency:
30	150 kHz AM	30	150 kHz AM
31	87,5 MHz FM	31	87.5 MHz FM
32	88,0 MHz FM	32	88.0 MHz FM
33	108,0 MHz FM	33	108.0 MHz FM

FM (Type 2604, 260	9)	FM (type 2604, 2609)		
Tryk:	Frekvens:	Press:	Frequency:	
34	76,0 MHz FM	34	76.0 MHz FM	
35	88,0 MHz FM	35	88.0 MHz FM	
36	90.0 MHz FM	36	90.0 MHz FM	

AM JUSTERING Oscillator MW

Der må ikke tilføres signal.

Tilslut DC-voltmeter over 1C27.

Indstil apparat til 150 kHz (520 kHz).

Juster 1L5 til spændingen over 1C27 er 2 V ± 0.25 V $(4 \text{ V} \pm 0.25 \text{ V}).$

FM JUSTERING Udskiftning af FM-tuner

Ved udskiftning af FM-tuner er det kun nødvendigt at justere MF-spolen 17L7.

\mathbf{MF}

Slut et oscilloskop til ben 8 på 1IC1.

Slut en sweepgenerator til antenneindgangen og indstil til 87,5 MHz. Tryk 31 (87,5 MHz).

Juster 17L7 til max. og symmetrisk MF-kurve.

TUNERJUSTERINGER

(Kun hvis tuneren er fejljusteret)

Oscillator

Der skal ikke tilføres signal.

Tilslut et DC-voltmeter mellem 17TP11 og ben 8 på tuneren.

Tryk 31 (87,5 MHz) og justér 17L8 til 0V.

RF ADJUSTMENTS

Note: Carry out RF adjustments in testmode in order to ease the operation of the product.

TESTMODE: See chapter 7. In testmode the receiver may switch between the frequencies used for adjustment. Use the following list to chose frequencies:

31	87.5	MHz	FIV
32	88.0	$\mathrm{MH}z$	FN
33	108.0	MHz	FN

AM ADJUSTMENT

Do not feed any signal.

Oscillator MW

Connect DC votmeter across 1C27.

Adjust product to 150 kHz (520 kHz).

Adjust 1L5 until the voltage across 1C27 is $2 \text{ V} \pm 0.25 \text{ V} (4 \text{ V} \pm 0.25 \text{V}).$

FM ADJUSTMENT Replacement of FM tuner

When replacing af FM tuner, it is only necessary to adjust the IF coil 17L7.

IF

Connect an oscilloscope to pin 8 of 1IC1.

Connect a sweep generator to the aerial input and adjust to 87.5 MHz. Press 31 (87.5 MHz).

Adjust 17L7 to max. and symmetrical IF curve.

TUNER ADJUSTMENT

(only if turner is incorrectly adjusted)

Oscillator

Do not feed any signal.

Connect a DC voltmeter between 17TP11 and pin 8 on the tuner.

Press 31 (87.5 MHz) and adjust 17L8 to 0 V.

HF 87.5 MHz

Slut et oscilloskop til ben 8 på 1IC1.

Slut en sweepgenerator til antenneindgangen og indstil til 87,5 MHz.

Tryk 31 (87,5 MHz).

Juster 17L2, 17L4, 17L5 og 17L7 til max. og symmetrisk MF-kurve.

HF 108 MHz

Tryk 33 (108 MHz).

Sweepgeneratorens frekvens ændres til 108 MHz, og 17R32, 17R33 og 17R34 justeres til max.

Detektor

Slut et oscilloskop til ben 8 på 1IC1.

Tilslut et DC-voltmeter mellem plus på 1C39 og plus på 1C46.

Slut en målesender til antenneindgangen og indstil til 98 MHz, $50 dB\mu V~(300\mu V~EMF), \pm 75~kHz, 1~kHz$ modulation.

Indstil radioen på 98 MHz.

Finindstil målesenderens frekvens til min. forvrængning (2. harmonisk) i signalet, som vist på kurven.

RF 87.5 MHz

Connect an oscilloscope to pin 8 of 1IC1.

Connect a sweep generator to the aerial input and adjust to 87.5 MHz.

Press 31 (87.5 MHz).

Adjust 17L2, 17L4, 17L5 and 17L7 to max. and symmetrical IF curve.

RF 108 MHz

Press 33 (108 MHz).

Change the frequency of the sweep generator to 108 MHz and adjust 17R32, 17R33 and 17R34 to max.

Detector

Connect an oscilloscope to pin 8 of 1IC1.

Connect a DC voltmeter between plus op 1C39 and plus of 1C46.

Connect a signal generator to the aerial input and adjust it to 98 MHz, 50 dB μ V (300 μ V EMF), \pm 75 kHz, 1kHz modulation.

Adjust the radio to 98 MHz.

Fine-tune the frequency of the signal generator to min. distortion (2nd harmonic) of the signal, as shown on the curve.

RIGTIG

 $\wedge \wedge \wedge \wedge \wedge \wedge$

CORRECT

FORKERT



INCORRECT

Juster 1L8A til 0 V ± 50 mV. Ved justering af 1L8 må der ikke anvendes metalværktøj.

Skru 1L8B op, så kernen flugter med dåsen.

Slut et oscilloskop til LF-udgangen (højre eller venstre HT-stik).

Juster 1L8B nedad til der 1. gang er minimum harmonisk forvrængning på LF-udgangen.

Finjuster 1L8A og 1L8B.

Indstil FM-displayindikering efter detektorjustering (se afsnit 7).

Adjust 1L8A to 0 V ± 50 mV. Do not use metal tools when adjusting 1L8.

Turn up 1L8B until the core is flush with the box.

Connect an oscilloscope to the ΛF output (right- or lefthand loudspeaker socket).

Adjust 1L8B downwards until there is minimum harmonic distortion on the AF output first time.

Fine-tune 1L8A and 1L8B.

Adjust FM display indication after detector adjustment (see chapter 7).

Bang & Olufsen

Kanalseparation

Slut en stereokoder (encoder) til antenneindgangen og indstilles til 88 MHz 60dBµV, 1 kHz modulation i den ene kanal og umoduleret signal i den anden kanal.

Slut et LF-voltmeter til den umodulerede kanal – 1P3-2 (højre) eller 1P3-1 (venstre).

Tryk 32 (88 MHz).

Juster 1R100 til min. signal i den umodulerede kanal.

Slut LF-voltmeteret til den anden kanal, og indstil her stereokoderen til umoduleret signal.

Kontroller om der er symmetrisk kanalseparation, hvis ikke, juster indtil dette opnås.

FM stopniveau

Slut en målesender til antenneindgangen og indstil til 88 MHz, $10\mu V$ EMF, ± 75 kHz.

Slut DC-voltmeter til ben 16 på 1IC1.

Kortslut basic på 1TR6 til stel (se SMD-komponent-placeringtegning).

Drej 1R26 mod uret til stop.

Tryk 32 (88 MHz).

Drej 1R26 med uret til ben 16 på 1IC1 skifter fra høj til lav.

Fjern kortslutningen på basic af 1TR6.

Display, PCB5

Kontrastjustering

Sæt PCB5 i serviceposition.

Tast RADIO

Juster med 5R56 (SMD) til max. kontrast i displayet. Skru ned for kontrasten indtil lyset netop forsvinder i de lyssegmenter, der er uvedkommende for den aktuelle tekst i displayet.

Channel separation

Connect a stereo decoder (encoder) to the aerial input and adjust to 88 MHz 60 dBµV, 1kHz modulatin in one channel and unmodulated signal in the other.

Connect an ΛF voltmeter to the unmodulated channel – 1P3-2 (right) og 1P3-1 (left).

Press 32 (88 MHz).

Adjust 1R100 to min. signal in the unmodulated channel.

Connect the AF voltmeter to the other channel and set the stereo coder to the unmodulated signal.

Check whether there is symmetrical channel separation. If not adjust until this is achieved.

FM stop level

Connect a signal generator to the aerial input and adjust to 88 MHz, 10 µV EMF, ±75 kHz.

Connect a DC voltmeter to pin 16 of 1IC1.

Short-circuit base of 1TR6 to ground (see SMD component placement)

Turn 1R26 anticlockwise to stop.

Press 32 (88 MHz)

Turn 1R26 clockwise until pin 16 of 1IC1 changes from high to low.

Remove the short-circuit on the base of 1TR6.

Display, PCB5

Contrast adjustment

Bring PCB5 into service position.

Press RADIO

Adjust to maximum contrast in the display by means of 5R56 (SMD).

Reduce the contrast until the light just disappears in those light segments which are not relevant to the text currently being displayed.

Bang & Olufsen

MEKANISKE JUSTERINGER, BÅNDOPTAGER Højde og azimuth

For at opnå korrekt højdejustering skal højdeværktøj bestillingsnr. 3624026 benyttes.

En tilnærmet justering kan opnås med en spejlkassette.

Ilæg justerværktøj 1 og 2.

Tryk TAPE. Løbeværket kan nu køre uden bånd, uden det går i autostop.

MECHANICAL ADJUSTMENTS, TAPE RECORDER

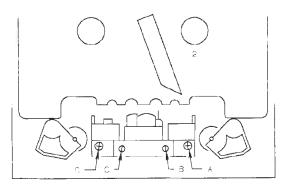
Height and azimuth

To obtain correct height adjustment, height adjustment tool part no. 3624026 must be used.

Approximate adjustment can be obbtained using a mirror cassette.

Insert adjustment tools 1 and 2.

Press TAPE. The tape transport mechanisme can now run without a tape without going into autostop.



Højde båndstyr

Juster henholdsvis A og D sådan at justerværktøj 1 kan skubbes ind i båndstyrene.

Azimuth side 1

Ilæg azimuth bånd bestillingsnr. 6780036.

De to Y indgange på et oscilloskop tilsluttes højre og venstre AUX udgang.

Tryk PLAY, og skrucn C justeres til de 2 kurver på oscilloskopet er i medfase ved max. amplitude.

Azimuth side 2

Tryk TURN.

Justeringen gøres som azimuth side 1, blot justeres der med skruen B.

Height, tape guide

Adjust A and D so that adjustment tool 1 can be pushed into the tape guides.

Azimuth side 1

Load azimuth tape part no. 6780036.

Connect the two Y inputs on an oscilloscope to right and left AUX outputs.

Press PLAY and adjust screw C until the 2 curves on the oscilloscope are in phase at maximum amplitude.

Azimuth side 2

Press TURN.

Adjustment as for azimuth side 1 but using screw B.

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Bang&Olufsen

ELEKTRISKE JUSTERINGER, BÅNDOPTAGER

Angivelserne er for højre kanal, angivelserne i parentes er for venstre kanal.

Foretag elektriske justeringer uden DOLBY NR.

Normbånd benyttet til justering:

CrO₂ TDK AP512 Fe₂O₃ BASF R723 DG METAL AP 712 bestillingsnr. 6780066 bestillingsnr. 6780067 bestillingsnr. 6780101

Hastighed

Ilæg wow bånd bestillingsnr. 6780037. (Justeringen skal foretages midt på båndet).

ELECTRICAL ADJUSTMENTS, TAPE RECORDER

The specifications are for the righthand channel (the specifications in brackets are for the lefthand channel).

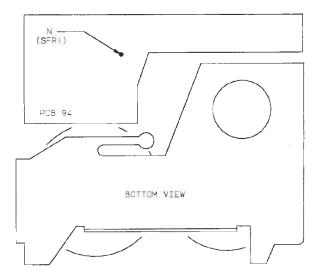
Carry out the electrical adjustments without DOLBY NR.

Level tapes used for the adjustment:

 ${\rm CrO_2~TDK~AP512}$ ${\rm Fe_2O_3~BASF~R723~DG}$ ${\rm METAL~AP~712}$ part no. 6780066 part no. 6780067 part no. 6780101

Speed

Load wow tape part no. 6780037. (The adjustment should be made in a mid-tape position).



Tilslut wow meter med driftmeter til amplifier stikket.

Tryk PLAY, måleresultatet aflæses og noteres.

Tryk TURN, og den anden side af båndet afspilles, måleresultatet aflæses og noteres.

Middelværdien af de to tal udregnes.

Hvis måleresultaterne er negative, lægges middelværdien til det højeste af de to tal, og potentiometeret SFR1 på printet under løbeværket justeres til det udregnede resultat. SFR1 er tilgængelig gennem hullet N i printet på løbeværket.

Hvis måleresultaterne er positive, trækkes middelværdien fra det højeste af de to tal, og potentiometeret SFR1 på printet under løbeværket justeres til det udregnede resultat. Connect wow meter with drift meter to the amplifier point.

Press PLAY, read off and note down reading.

Press TURN and play other side of tape, read off and note down reading.

Calculate the mean of the two figures.

If the values obtained are negative, add the mean value to the higher of the two figures. Adjust potentiometer SFR1 on the PCB under the tape transport mechanism to the value calculated. SFR1 is accessible through the hole N in the PCB on the tape transport mechanism.

If the values obtained are positive, subtract the mean value from the higher of the two figures. Adjust potentiomenter SFR1 on the PCB under the tape transport mechanism to the value calculated.

Bang & Olufsen

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Afspilningsniveau

Nedenfor er beskrevet justering af afspilningsniveau med anvendelse af to alternative typer normbånd:

- I. DIN standard, 250 pWb/mm.
- 2. Dolby level, 200 pWb/mm.
- 1. Ilæg Pegel-bånd 6780035.

Slut LF-voltmeter til 7TP2 (7TP1).

Juster 7R13 (7R25), til der måles 660 mV i 7TP2 (7TP1).

Ilæg Dolby level kalibreringsbånd MTT-150 A.

Slut LF-voltmeter til 7TP2 (7TP1).

Juster 7R13 (7R25), til der måles 580 mV i 7TP2 (7TP1).

TESTMODEJUSTERING

Den automatiske optagekontrol i apparatet skal sættes ud af funktion, mens apparatet justeres. Det kan gøres i testmode.

Forbind apparatet til lysnettet.

Tryk AUX RECORD

Kortslut clamper-kontakten i 2-3 sekunder.

Playback level

The playback adjustment described below has been carried out using two alternative types of level tapes:

- 1. DIN-standard, 250 pWb/mm.
- Dolby level, 200 pWb/mm.
- 1. Load level tape 6780035.

Connect an AF voltmeter to 7TP2 (7TP1).

Adjust 7R13 (7R25) until a reading of 660~mV is obtained in 7TP2 (7TP1).

2. Load Dolby level calibration tape MTT-150 A.

Connect an AF voltmeter to 7TP2 (7TP1).

Adjust 7R13 (7R25) until a reading of 580 mV is obtained in 7TP2 (7TP1).

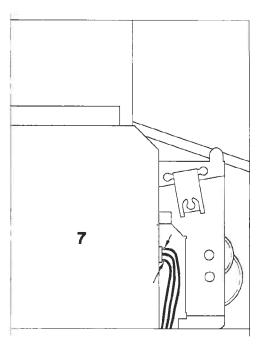
TESTMODE ADJUSTMENT

Disengage the automatic recording control while adjusting the product. This can be done in testmode.

Connect the product to the mains.

Press AUX RECORD

Short-circuit the clamper switch for 2-3 seconds.



Bang & Olufsen

Display skal nu vise TESTMODE/AUX.

Tast 20 på tastaturet (automatisk rec. level off).

Tast 22 på tastaturet (DOLBY NR. off).

Tryk 💽

Tryk AUX RECORD

Slut tonegenerator til AUX indgangen.

Apparatet er nu klar til justering.

Tag netstikket ud for at resette apparatet efter justeringerne.

Optagehæv

Foretag denne justering i testmode (udfør punktet TESTMODEJUSTERING).

Indstil tonegenerator til 333 Hz og 400 mV.

Ilæg Cr-bånd.

Slut LF-voltmeter til 7TP8 (7TP7).

Reguler tonegeneratorens udgangsniveau, til der måles 1 V.

Tonegeneratorens udgangsniveau dæmpes 20 dB, og frekvensen ændres til 18 kHz.

Juster 7L1 (7L2), til der måles 760 mV.

HX-filter

Foretag denne justering i testmode (udfør punktet TESTMODEJUSTERING).

Slut DC-voltmeter til 7TP6 (7TP5).

Ilæg Cr-bånd.

Juster 7L8 (7L7) til min. DC-spænding.

Biasfilter

Foretag denne justering i testmode (udfør punktet TESTMODEJUSTERING).

Slut LF-voltmeter til 7TP4 (7TP3).

Ilæg Cr-bånd.

Juster 7L4 (7L3) til min. spænding i 7TP4 (7TP3).

Cr-bias

Foretag denne justering i testmode (udfør punktet TESTMODEJUSTERING).

Ilæg CrO2 norm-bånd 6780066.

Indstil tonegenerator til 333 Hz og 20 mV.

Slut LF-voltmeter til 7TP2 (7TP1).

Indstil tonegeneratoren, til der måles ca. 30 mV.

TESTMODE/AUX must be displayed.

Press 20 on the keyboard (Automatic rec. level off).

Press 22 on the keyboard (DOLBY NR. off).

Press 💽

Press AUX RECORD

Connect tone generator to the AUX input.

The product is now ready for adjustment.

When the adjustment has been carried out remove the mains plug in order to reset the product.

Recording boost

Carry out this adjustment in testmode (carry out TESTMODE ADJUSTMENT).

Set the tone generator to 333 Hz and 400 mV.

Load Cr tape.

Connect af AF voltmeter to 7TP8 (7TP7).

Adjust the tone generator output until a reading op 1 V is measured.

Damp the tone generator output by 20 dB, and change the frequency to 18 kHz.

Adjust 7L1 (7L2) until a reading of 760 mV is obtained.

HX filter

Carry out this adjustment in testmode (carry out TESTMODE ADJUSTMENT).

Connect a DC voltmeter to 7TP6 (7TP5).

Load Cr tape.

Adjust 7L8 (7L7) to min. DC voltage.

Bias filte

Carry out this adjustment in testmode (carry out TESTMODE ADJUSTMENT).

Connect af AF voltmeter to 7TP4 (7TP3).

Load Cr tape.

Adjust 7L4 (7L3) until min. voltage in 7TP4 (7TP3).

Cr Bia

Carry out this adjustment in testmode (carry out TESTMODE ADJUSTMENT).

Load CrO₂ level tape 6780066.

Adjust tone generator to 333 Hz and 20 mV.

Connect af AF voltmeter to 7TP2 (7TP1).

Adjust the tone generator until a reading of approx. 30 mV is obtained.

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Juster 7R161 (7R162) indtil afspilleniveauet ved 333 Hz og 16 kHz er ens, ved henholdsvis at optage og afspille 333 Hz og 16 kHz.

(Mindre bias giver diskanthæv. Mere bias giver diskantfald).

Fe-bias

Fremgangsmåde som Cr-bias, men benyt Fe₂O₃ normbånd 6780067, og juster med 7R159 (7R160).

MP-bias

Fremgangsmåde som Cr-bias, men benyt metalnormbånd 6780101 benyttes, og juster med 7R164 (7R163).

Optagestrøm, Cr

Foretag denne justering i testmode (udfør punktet TESTMODEJUSTERING).

Ilæg CrO2 norm-bånd.

Indstil tonegenerator til 333 Hz og 100 mV.

Slut LF-voltmeter til 7TP2 (7TP1).

Indstil tonegeneratoren til der måles 200 mV.

Juster 7R52 (7R53) indtil afspilleniveauet er 200 mV, ved henholdsvis at optage og afspille 333 Hz.

Optagestrøm, MP

Cr-justering skal være foretaget.

Fremgangsmåde som ved optagestrøm, Cr. men benyt metal-normbånd 6780101.

Justeringen er fælles for de to kanaler og foretages med 7R167.

Automatisk optageniveau

Foretag denne justering i testmode (udfør punktet TESTMODEJUSTERING).

Ilæg Cr-bånd.

Indstil tonegeneratoren til 333 Hz og ca. 400 mV.

Slut LF-voltmeter til 7TP2.

Juster på tonegeneratoren til der måles 660 mV.

Slut et DC-voltmeter til 7IC8, ben 9 (lus J93) og ben 10 (lus J80).

Juster 7R198 til der måles 0 mV ±10mV.

While recording and playing back 333 Hz and 16 kHz respectively, adjust 7R161 (7R162) until the playback level is identical for 333 Hz and 16 kHz. (Less bias will result in treble boost, more bias will result in treble cut).

Fe bias

Follow the same procedure as for Cr bias, only use Fe₂O₃ level tape 6780067 and adjust 7R159 (7R160).

MP bias

Follow the same procedure as for Cr bias, only use metal level tape 6780101 and adjust with 7R164 (7R163).

Recording current, Cr

Carry out this adjustment in testmode (carry out TESTMODE ADJUSTMENT).

Load CrO2 level tape.

Adjust tone generator to 333 Hz and 100 mV. Connect AF voltmeter to 7TP2 (7TP1).

Set the tone generator until a reading of 200 mV is obtained.

While recording and playing back 333 Hz adjust 7R52 (7R53) until the playback level is 200 mV.

Recording current, MP

The Cr adjustment must have been carried out.

Follow the same procedure as for recording current, Cr. only use metal level tape 6780101.

This adjustment applies to both channels and is carried out with 7R167.

Automatic recording level

Carry out this adjustment in testmodt (carry out TESTMODE ADJUSTMENT)

Load Cr tape.

Adjust the tone generator to 333 Hz and approx. $400~\mathrm{mV}$

Connect an AF voltmeter to 7TP2.

Adjust the tone generator until a reading of 660 mV is obtained.

Connect a DC voltmeter to 7IC8, pins 9 (J93) and 10 (J80)

Adjust 7R198 until a reading of 0 mV ± 10 mV is obtained.

ELEKTRISKE JUSTERINGER, CD

FOTODIODERNE OG LASEREN ER MERE FØLSOMME OVERFOR STATISK EL END MOS IC'er. UFORSIGTIG BEHANDLING UNDER SERVICE KAN REDUCERE LEVETIDEN DRASTISK. DERFOR SKAL DET SIKRES, AT ARBEJDSPLADSEN ER BESKYTTET MOD STATISK EL.

Apparatet må ikke være sluttet til lysnettet, når der skiftes løbeværk, eller hvis løbeværk og PCB8 ikke er forbundet til hinanden.

Laserstrøm

Vigtigt:

Forjuster laserstrømpotentiometeret 8R24 efter udskiftning af CD-løbeværket; kontroller også forbindelsen til monitordioden, inden apparatet sluttes til lysnet.

Bang & Olufsen

ELECTRICAL ADJUSTMENTS, CD

THE PHOTODIODES AND THE LASER ARE MORE SENSITIVE TO ELECTROSTATIC DISCHARGES THAN MOS ICS. CARELESS HANDLING DURING SERVICING MAY REDUCE LIFE EXPECTATION DRASTICALLY.

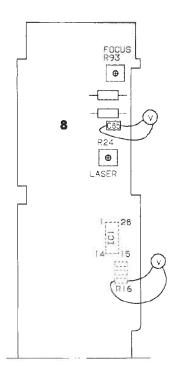
THEREFORE, CARE SHOULD BE TAKEN, THAT THE REPAIR STATION IS PROTECTED AGAINST STATIC ELECTRICITY.

The product must not be connected to the mains, when replacing the CD mechanism, or if the CD mechanism and PCB8 are not interconnected.

Laser current

Important:

When the CD transport mechanism has been replaced, the laser current potentiometer 8R24 has to be preadjusted before the product is connected to the mains. Also, check the connection of the monitor diode before the product in connected to the mains.



Tilslut et ohmmeter fra ben 18 til ben 27 på 8IC1.

Juster 8R24 til der måles 1 kohm ±10%.

Tilslut et DC-voltmeter over 8R16.

llæg testplade nr. 5 (plade uden fejl, bestillingsnr. 3634031).

Slut apparatet til lysnettet og tryk CD.

Spændingen over R16 skal være over 15 mV, hvis ikke, slukkes apparatet og fejlen findes.

Connect an ohmmeter from pin 18 to pin 27 of 8IC1.

Adjust 8R24 until 1 kohm ±10% is measured.

Connect a DC voltmeter across 8R16.

Insert test disc no. 5 (disc without errors, part no. 3634031).

Connect the product to the mains, and press CD.

The voltage across R16 should be higher than 15 mV. If it is not higher than 15 mV, switch off the product and find the error.

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Hvis der er over 15 mV, spilles spor 1 på testplade 5, og 8R24 justeres, til der måles 50 mV ± 5 mV med DC-voltmeteret.

N.B. Hvis spændingen over 8R16 er under 25 mV kan CD'en stoppe kort efter start, derfor skal justeringen foregå lige efter start af CD.

Fokus offset

llæg testplade nr. 5 (bestillingsnr. 3634031).

Tilslut DC-voltmeter over 8C85.

Tryk CD.

Hvis CD'en ikke starter drej da potentiometer 8R93 i step indtil den starter.



CD is started.

Insert test disc no. 5 (part no. 3634031).

Connect a DC voltmeter across 8C85.

measured with the DC voltmeter.

Press CD.

If the CD does not start, turn potentiometer 8R93 in steps until it starts.

If the voltage is higher than 15 mV, play track 1 on

25 mV, the CD may stop shortly after starting, so the

test disc 5 and adjust 8R24 until 50 mV ±5 mV is

adjustment has to be made immediately after the

NOTE: If the voltage across 8R16 is less than



POTENTIOMETER STEP

Når CD kan starte, justeres 8R93, til der måles 400 mV \pm 40 mV.

POTENTIOMETER STEP

When the CD is able to start, adjust 8R93 until $400 \text{ mV} \pm 40 \text{ mV}$ is measured.

Kontrol af laserforsyning

Laseren, laserforsyningen i 8IC1 og monitordioden danner et tilbagekoblings-system. En fejl i laserforsyningen kan medføre, at laseren ødelægges.

Da det er umuligt at kontrollere og reparere et tilbagekoblingssystem, hvor en af komponenterne mangler, kan nedenstående kredsløb bruges til at kontrollere laserforsyningen.

Den grønne LED udgør laseren. Spændingen over 18 ohms modstanden udgør monitor-tilbagekoblings-spændingen. 33 ohms modstanden og omskifteren gør det muligt at ændre strømforbruget fra laserforsyningen.

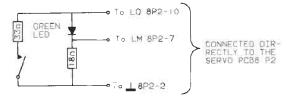
Bang & Olufsen

Checking the laser supply

The laser, the laser supply in 8IC1 and the monitor diode form a feed-back system. A defect in the laser supply may result in destruction of the laser.

As it is impossible to check and repair a feed-back system if one part of the system is missing, the laser supply can be checked by means of the below circuit.

The green LED replaces the laser. The voltage across the 18-ohm resistor is the feed-back voltage for the monitor. The 33-ohm resistor and the switch make it possible to change the power consumption from the laser supply.



Grøn LED f.eks. CQY94 bestillingsnr. 8330054.

Fleks-printet tages ud af P2 på servo-PCB'en.

Ovenstående kredsløb loddes på P2 på servo-PCB'en.

SI (ben 6 på 8IC1) kortsluttes til stel.

Når SI (Start initialization) er low, kan laserforsyningen tændes i service position 1, ved at kortslutte TESTMODE stikket kortvarigt. Tryk derefter CD og PLAY.

LO-spændingen på ben 10 af 8P2 måles.

S1 afbrudt: LO fra 1,8 V til 2,3 V LM fra 170 mV til 220 mV Den grønne LED lyser svagt

S1 kortsluttet: LO fra 1,8 V til 2,3 V LM fra 170 mV til 220 mV Den grønne LED lyser svagt

Når S1 skiftes fra kortsluttet til afbrudt, vil LED'en lyse kraftigere i et kort øjeblik.

Tilbagekoblingssystemet bevirker, at der går samme strøm i LED'en, hvad enten S1 er kortsluttet eller afbrudt. Green LED, e.g. CQY94, part no. 8330054.

Remove the flex PCB from P2 on the servo PCB.

Connect the above-mentioned circuit to P2 on the servo PCB.

Connect SI (pin 6 of 8IC1) to ground.

When \overline{SI} (Start initialization) low, the laser supply can be switched on by short circuit the socket TESTMODE briefly. Then press CD and PLAY.

Measure the LO voltage on pin 10 of 8P2.

S1 open: LO from 1.8 V to 2.3 V LM from 170 mV to 220 mV The green LED emits little light

S1 closed: LO from 1.8 V to 2.3 V LM from 170 mV to 220 mV The green LED emits little light

During the change from S1 closed to S1 open, the LED will shortly emit more light than usual. The feed-back system ensures that the same amount of current passes through the LED irrespective of whether S1 is open or closed.

Bang & Olufsen

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BEOLAB 2500

Justering af bas-/diskantniveau

Foretages kun ved udskiftning af højttaler. Tilslut den nye enhed.

Fjern justerings-PCB – diskant PCB24 eller bas PCB23.

Tilslut tonegenerator til Power Link-ingangen og indstil den til 900 Hz (bas)/6 kHz (diskant) og 30 mV.

Tilslut LF-voltmeter over tilslutningsklemmerne på den udskiftede enhed.

Beregn forskellen på den skrevne spænding (bag på enheden) og den målte spænding i antal gange:

 $\frac{\text{skrevet spænding}}{\text{mâlt spænding}} = x \text{ times}$

Tabellen viser den værdi, der ligger nærmest den beregnede og dermed kombinationen af modstande, der skal afbrydes (0 i hver binærkode).

BEOLAB 2500

Adjustment of bass/treble levels

To be carried out only when replacing a loudspeaker. Connect the new unit.

Remove the adjustment PCB - treble PCB24 or bass PCB23

Connect an audio oscillator to the Power Link input and set it to 900 Hz (bass)/6 kHz (treble) and 30 mV.

Connect AF voltmeter across the connection terminals of the replaced unit.

Calculate the difference between the rated voltage (on the back of the unit) and the measured voltage in number of times:

 $\frac{\text{rated voltage}}{\text{measured voltage}} - = x \text{ times}$

The table indicates the value closest to the calculated voltage and thus the combination of resistors which have to be disconnected (0 in each binary code).

x times	Binary code	Parallel con. between	Attennation degree
1.0	0000		0 dB
0.94	0 0 0 1	15K	-0.5 dB
0.89	0 0 1 0	6K8	-1.0 dB
0.85	0 0 1 1	6K8 // 15K	-1.4 dB
0.80	0 1 0 0	3K3	-1.9 dB
0.78	0 1 0 1	3K3 // 15K	-2.2 dB
0.74	0 1 1 0	3K3 // 68K	-2.7 dB
0.71	0 1 1 1	3K3 // 6K8 // 15K	-3.0 dB
0.65	1 0 0 0	1K5	-3.7 dB
0.63	1 0 0 1	1K5 // 15K	-4.0 dB
0.61	1 0 1 0	15K // 6K8	-4.3 dB
0.59	1 0 1 1	1K5 // 6K8 // 15K	-4.6 dB
0.56	1 1 0 0	1K5 // 3K3	-5.0 dB
0.55	1 1 0 1	1K5 // 3K3 // 15K	-5.2 dB
0.53	1 1 1 0	1K5 // 3K3 // 6K8	-5.5 dB
0.51	1 1 1 1	1K5 // 3K3 // 6K8 // 15K	-5.8 dB

BEOCENTER 2500

Glaslåge

Afmonter glaslågen ved at trække den ud fra systemet i øverste højre hjørne, modsat låsen.

Frontdæksler

Træk ud i øverste hjørne.

Bagpart

Fjern 6 skruer (samt evt. antenneholder) Træk bagparten bagud.

Serviceposition PCB1

Fjern de 5 skruer A og de 3 skruer B. Løsn de 2 skruer C samt skinnen. Løft POWER SUPPLY AND PRE AMP. (PCB2) ud af kabinettet.

Løsn TUNER (PCB1) vha. de to plastiktappe og sving den ud i serviceposition.

Serviceposition PCB2

Som PCB1.

Serviceposition PCB3

Som PCB1; fjern dog kun skruerne A (skinnen bliver siddende).

DISMANTLING

BEOCENTER 2500

Glass door

Dismount the glass door by pulling it out from the system at its top right-hand corner, opposite the lock.

Front covers

Pull out at the top corner.

Rear panel

Remove six screws (and perhaps the aerial holder). Pull the rear panel backwards.

Service position of PCB1

Remove the five screws A and the three screws B. Loosen the two screws C and the rail. Lift the POWER SUPPLY AND PRE AMP. (PCB2) out of the cabinet. Loosen the TUNER (PCB1) by means of the two

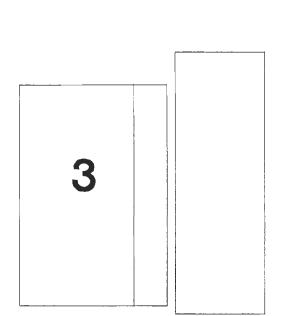
Loosen the TUNER (PCB1) by means of the two plastics tabs and swing it out into service position.

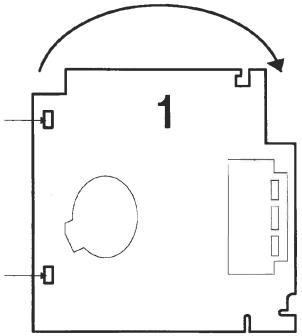
Service position of PCB2

Same as PCB1.

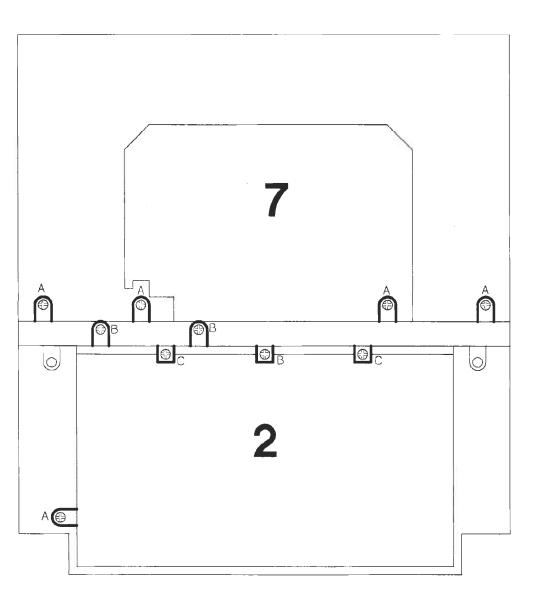
Service position of PCB3

Same as PCB1; however, only the screws A should be removed (leave the rail in place).









Serviceposition PCB5

Fjern låsering D, frigør klampe-arm og klampe fra

Afmonter glaslåger og frontdæksler.

Afmonter de 8 skruer E, der holder midterpladen. Løft klampe og træk forsigtigt midterpladen ud.

Afmonter de 5 skruer F.

Lod Lamp C og Lamp D af.

Sving PCB5 i serviceposition (pas på fladkablet).

Service position of PCB5

Remove the locking ring D, release the clamp arm and the clamp from the tab.

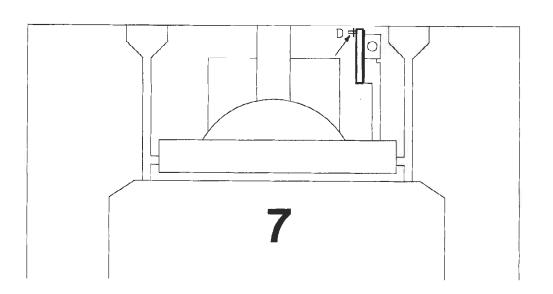
Dismount glass doors and front covers.

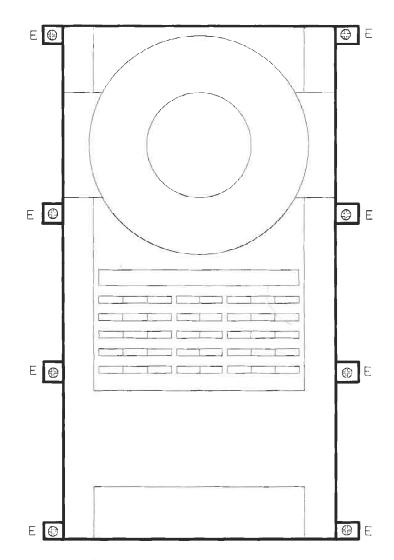
Dismount the eight screws E which hold the centre

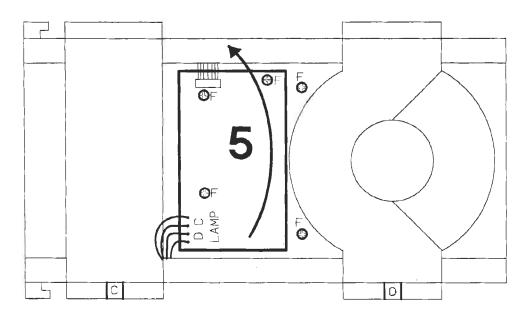
Lift the clamp and pull out the centre plate carefully. Dismount the five screws F.

Unsolder Lamp C and Lamp D.

Swing PCB5 into service position (watch out for the flat cable).







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Serviceposition PCB6

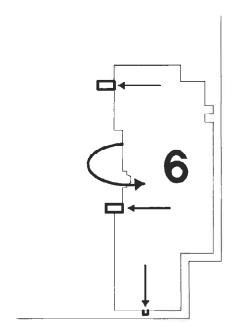
Som PCB1; fjern dog kun skruerne A (skinnen bliver siddende).

Løsn de 3 plastiktappe og træk PCB6 bagud i serviceposition.

Service position of PCB6

Same as PCB1; however, only the screws A should be removed (leave the rail in place).

Loosen the three plastics tabs and pull PCB6 backwards out into service position.



Serviceposition PCB7

Som PCB1; fjern dog kun skruerne A (skinnen bliver siddende).

Fjern de 4 skruer og læg PCB7 i serviceposition.

Service position of PCB7

Same as PCB1; however, only the screws A should be removed (leave the rail in place).

Remove the four screws and place PCB7 in service position.

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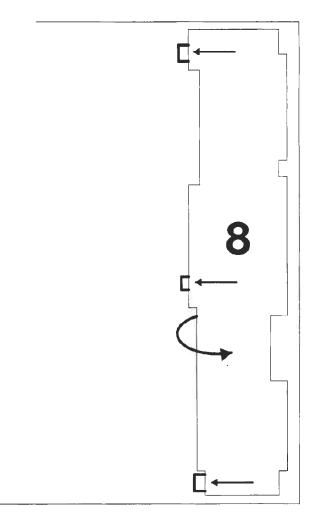
Serviceposition PCB8

Afmonter højre glaslåge og frontdæksel. Løsn de 3 plastiktappe og drej PCB8 ud i serviceposition (pas på fladkablet).

Service position of PCB8

Dismount the right-hand glass door and the front cover.

Loosen the three plastics tabs and swing PCB8 out into service position (watch out for the flat cable).





Serviceposition PCB9

Afmonter venstre glaslåg og frontdæksel, samt bagpart.

Fjern evt. de 5 skruer og træk PCB9 en smule ud.

Serviceposition PCB10

Ekstra kit til PCB1; se PCB1.

Serviceposition PCB11

Sæt PCB8 i serviceposition (PCB11 sider bag ved). Fjern 1 skrue og træk ud.

Serviceposition PCB20

Fjern midterplade; se PCB5.

Pres plastiktappene ned, træk CD-dækslet ud (PCB20 sidder bag ved). Fjern 1 skrue og løft fri.

BEOLAB 2500

Serviceposition PCB22

Afmonter bagparten (fjern 5 skruer og træk bagud). Fjern de 4 skruer G og vip PCB22 i serviceposition.

Bang & Olufsen

Service position of PCB9

Dismount the left-hand glass door and the front cover as well as the rear panel.

Remove the five screws and pull out PCB9 a little if required.

Service position of PCB10

Extra kit for PCB1; see PCB1.

Service position of PCB11

Bring PCB8 into service position (PCB11 is located behind it).

Remove one screw and pull out PCB11.

Service position of PCB20

Remove centre plate; see PCB5.

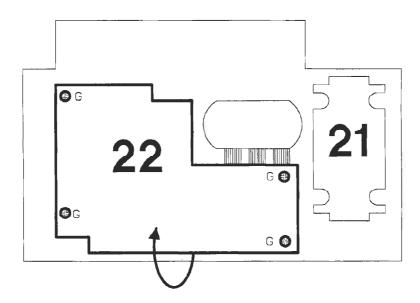
Press the plastic tabs downwards, pull out the CD cover (PCB20 is located behind it).
Remove one screw and lift out PCB20.

BEOLAB 2500

Service position of PCB22

Dismount the rear panel (remove five screws and pull backwards).

Remove the four screws G and tilt PCB22 into service position.



7-1

7-1

7-1

REPARATIONSTIPS

Udskiftning af CD-løbeværk

Fjern bagbeklædningen Sæt netdel/LF-PCB2 i serviceposition.

Afmonter PCB7.

Afmonter kølepladen A vha. skruerne B (transportskruen for CD skal være løsnet).

Afmonter flexprint og 8P63.

Fjern skruerne E og tag CD-løbeværket ud. Fjern plastbeslag på CD-løbeværket.

Justeringerne for dybde og sideværts centrering foretages vha. fjedrene F.

Foretag dybdejustering ved at bukke fjederbeslaget ud/ind.

Foretag sideværtscentreringen ved at flytte fjedrene F til siden på fjederbeslaget.

REPAIR TIPS

Replacement of CD transport mechanism

Remove the rear panel.

Bring the power-supply unit/AF-PCB2 into service position.

Dismount PCB7.

Dismount the cooling plate A by means of the screws B (the CD transport screw must be loosened).

Dismount flex print and 8P63.

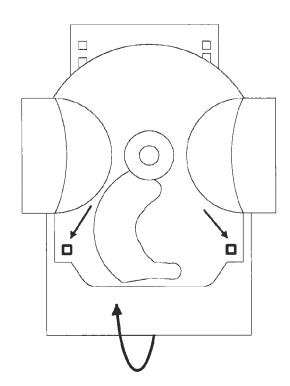
Remove the screws \boldsymbol{E} and take out the CD transport mechanism.

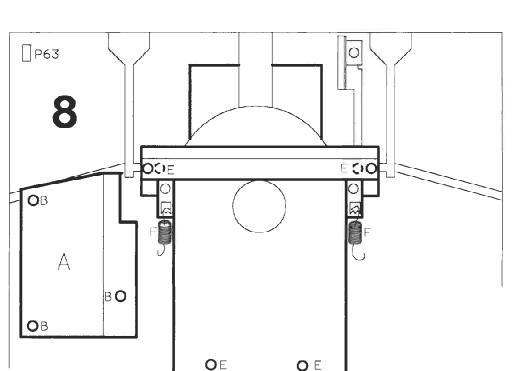
Remove the plastics fitting on the CD transport mechanism.

The adjustments for elevation and lateral centring are made by means of the springs F.

Make the elevation adjustment by bending the spring fitting outwards/inwards.

Make the lateral centring by moving the springs F to the side of the spring fitting.





Udtagning af gearkasse for CD-klampe

Båndoptager-PCB7 skal være afmonteret. Klampen skal være lukket elektrisk. Løft klampen op manuelt. Afmonter fjederen I i nederste punkt. Afmonter armen H. Afmonter ledning til motor, stik 9P78.

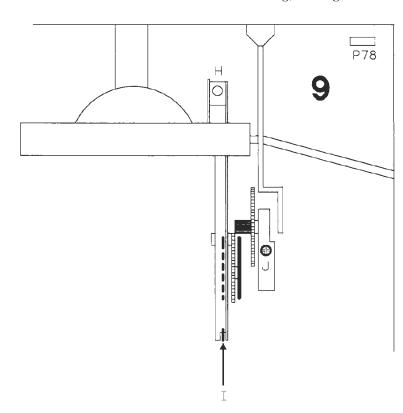
Løsn skruen J og tag gearkassen ud.

Vær opmærksom på at beslaget øverst på armen H ved samling er trykket helt sammen, og spænd det derefter.

Removal of gearbox for CD clamp

Tape recorder PCB7 must be removed. The clamp must be electrically sealed. Lift up the clamp manually. Dismount the spring I in its bottommost point. Dismount the arm H. Dismount the lead to the motor, plug 9P78. Loosen the screw J and take out the gearbox.

Make sure that the two parts of the fitting at the top of the arm H are pressed together completely when reassembling; then tighten the fitting.



Udtagning af båndoptagerløbeværket

Fjern bagbeklædningen. Sæt netdel/LF-PCB2 i serviceposition. Afmonter PCB7.

Fjern skruerne G og tag løbeværket ud.

Ved elektriske justeringer skal båndoptager-PCB7 være afmonteret!

Sørg for at tonehovedledninger ligger rigtigt ved samling.

Removal of the tape recorder transport mechanism

Remove the rear panel.

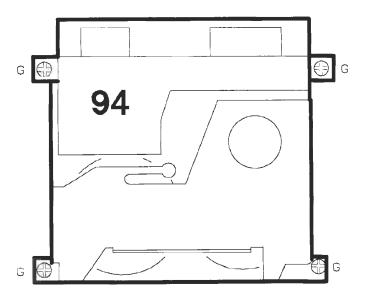
Bring the power-supply unit/AF-PCB2 into service position.

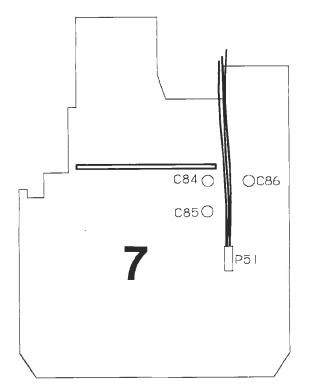
Dismount PCB7.

Remove the screws G and take out the transport mechanism.

When making electrical adjustments, the tape recorder PCB7 must be dismounted!

Make sure that the tape head leads are arranged properly when reassembling.





Snorsystem til glaslåger

7-2

Afmonter glaslåger og dækplader. Afmonter bagbeklædningen. Sæt netdel/LF-mondul i serviceposition. Skub glasholder til midten og løsn låsestykker for snor (en omdrejning).

Afmonter motorstyringsprint, PCB9.

Afmontering af skinne A

Løft højre side (set forfra) lidt ud, og skub mod venstre.

Løsn skruerne B for at afmontere beslag med snorhjul.

Sørg for, ved montering af ny skinne, at skinnen sidder rigtigt i styrchullerne.

Afmontering af skinnerne D og C

Før skinnen C afmonteres skal skinnen D og fronten afmonteres.

Træk bagkanterne på D ud i begge sider og afmonter skinnen D.

Løsn 8 skruer i fronten for at afmontere den. Løft skinnen C ud i venstre side, skub mod højre og afmonter den.

Løsn skruerne F.

Afmonter beslag med snorhjul.

Sørg for, ved montering af ny skinne, at skinnen sidder i styrehullerne.

Wire system for glass doors

Dismount the glass doors and cover plates.

Dismount the rear panel.

Bring the power-supply unit/AF module into service position.

Push the glass holder to the centre and loosen the wire clamping clips (one revolution).

Dismount the motor control circuit board, PCB9.

Dismounting rail A

Lift the right-hand side (as seen from the front) slightly outwards and push it towards the left.

Loosen the screws B in order to dismount the fitting with the wire pulleys.

Make sure when mounting the new rail that the rail is positioned correctly in the pilot holes.

Dismounting rails D and C

Before dismounting the rail C, rail D and the front have to be dismounted.

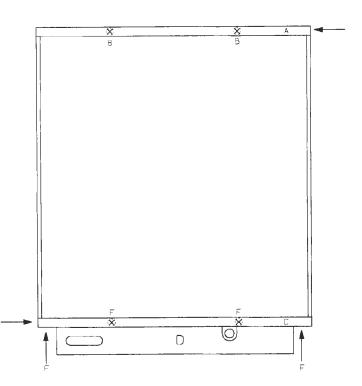
Pull out the rear edges of D in both sides and dismount the rail D.

Loosen eight screws in the front to dismount it. Lift out the left-hand side of the rail C, push it towards the right and dismount it.

Loosen the screws F.

Dismount the fitting with the wire pulleys.

Make sure when mounting the new rail that the rail is positioned in the pilot holes.



Montering af snor for glaslåger

Drej snorhjulet G med uret til stop.

Monter snoren i snorhjulet H (enden med den kraftige fjeder).

Før snoren i den næstinderste rille på snorhjulet H (nedenom), op omkring de øverste snorhjul (I, J, K og L) og ned om de nederste snorhjul (M, N og O). Drej hjulet G mod uret.

Sæt snoren fast i hjulet H.

Sæt snoren på hjul P og drej hjulet G for at se om alt er OK.

Glideskinnerne kan smøres med Barrierta fedt L55-3 (bestillingsnr. 3984030).

Opjustering af snor

Drej hjulet G så centrum af hjulene G og H flugter med overkanten af tårnet X.

Skub låsestykke for snor mod midten og spænd (ikke for hårdt).

Mounting of wire for glass doors

Turn the wire pulley G clockwise until it stops. Mount the wire in the wire pulley H (the end with the heavy spring).

Run the wire in the second innermost groove of the wire pulley H (underneath the pulley), up around the uppermost pulleys (I, J, K and L) and down around the lowermost pulleys (M, N and O). urn the pulley G anticlockwise.

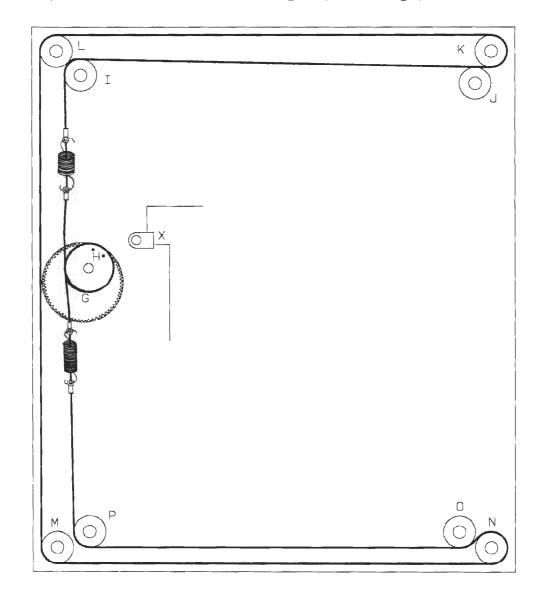
Fasten the wire in the pulley H.

Mount the wire on pulley P and turn pulley G to check that everything is OK.

The slide rails may be lubricated with Barrierta grease L55-3 (part no. 3984030).

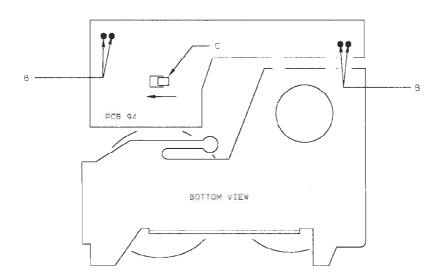
Readjustment of wire

Turn the pulley G such that the centre of the pulleys G and H is flush with the upper edge of the tower X. Push the wire clamping clip towards the centre and tighten (but not too tight).



Afmontering af PCB94 under løbeværk

Dismantling of PCB94 under tape transport mechanism



Lod loddepunkter B fri.

Pres låsetappen C i pilens retning, og træk PCB'en ud

Smøreskema

Behovet for eftersmøring er minimalt. Ved større eftersyn og ved udskiftning af mekaniske dele bør nedenstående retningslinier følges. NB! Smøremidlet bør kun påføres i lille mængde.

Kapstanlejer	3984022 Floil GB TS-1
Aksler for spoletallerkener 9412 og 9447	
Leje for remskiver 9489	
Aksel på tonehoved 94H1	
Glideflader mellem andre bevægelige dele	3984030 Barrierta L5512 (25gr.)

Desolder the solder points B.

Push the locking pin C in the direction of the arrow and pull out the PCB.

Lubrication Chart

The need for relubrication is **negligible**. In the case of overhauls and when replacing mechanical parts the directions below should be followed. NB! The lubricant should only be applied in small quantities.

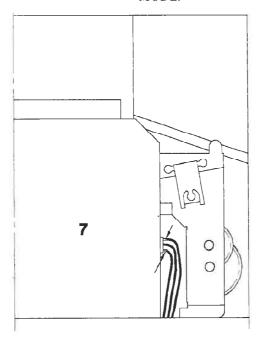
Capstan bearings	3984022 Floil GB TS-1
Shafts for turntables 9412 and 9447	11011 GD 13-1
Bearing for pulleys 9489	
Shaft on tapehead 94H1	
Sliding surfaces between other movable parts	3984030 Barrierta L5512 (25gr.)

TESTFUNKTIONER

Beosystem 2500 kan bringes i testmode ved at fjerne bagparten. Tænde for apparatet, og kortslutte clamper-kontakten i to-tre sekunder. Displayet viser nu TESTMODE.

TEST FUNCTIONS

The Beosystem 2500 may be brought into test mode by removing its rear panel, switching on the system and short-circuiting the clamper switch for two or three seconds; the display will now read TEST-MODE.



Forlad testmode ved at fjerne netstikket.

I testmode er der mulighed for:

- læsning af tuner variant.
- FM displayindikering.
- AM displayindikering.
- test af ROM/RAM.
- sletning af alle presatte programmer.

The test mode may be left by unplugging the mains plug.

In test mode, the following options are available:

- Display of tuner model.
- FM display indication.
- AM display indication.
- Testing of ROM/RAM.
- Deletion of all preset programmes.

Udlæsning af tunervariant

Bring apparatet i testmode.

Tryk 3	Variant	Display
	EU-FM/AM	0.0
	EU-FM	0.1
	US-FM/AM	1.0
	US-FM	1.1
	JAP-FM/AM	2.0
	JAP-FM	2.1
	AUS-FM/AM	3.0
	AUS-FM	3.1

Display of tuner model

Bring the system into test mode.

Press 3	Model	Display
	EU-FM/AM	0.0
	EU-FM	0.1
	US-FM/AM	1.0
	US-FM	1.1
	JAP-FM/AM	2.0
	JAP-FM	2.1
	AUS-FM/AM	3.0
	AUS-FM	3.1

AM/FM displayindikering

Indstil FM displayindikering efter udskiftning af PCB1, PCB3, 3IC6, 3B1, 3D4, 3R38, 1BP4 eller efter reparation/justering i FM-detektorkredsløbet.

Indstil AM displayindikering efter udskiftning af PCB1, PCB3, 3IC6, 3B1, 3D4, 3R38, 1BP1 eller 1BP2.

AM/FM display indication

The FM display indication has to be set after a replacement of PCB1, PCB3, 3IC6, 3B1, 3D4, 3R38 or 1BP4 or after a repair/adjustment of the FM detector circuit.

The AM display indication has to be set after a replacement of PCB1, PCB3, 3IC6, 3B1, 3D4, 3R38, 1BP1 or 1BP2.

FM:

Kontroller at justeringen af FM detektor er korrekt, før indstilling foretages.

Bring apparatet i testmode.

Indstil modtageren til en kendt station, f.eks 96,0 MHz.

Tryk GOTO.

Indtast frekvensen på den kendte station.

Tryk STORE.

Hvis indstillingen er i orden, skrives der OK i displayet, hvis ikke, står der ERROR.

AM:

Bring apparatet i testmode.

Indstil modtageren til en kendt station, f.eks 520 kHz.

Tryk Goto.

Indtast frekvensen på den kendte station. Tryk STORE.

Hvis indstillingen er i orden, skrives der OK i displayet, hvis ikke, står der ERROR.

ROM/RAM test:

Bring apparatet i testmode.

Tryk 8.

Display: OK OK OK

ROM INT-RAM EXT-RAM 3IC3 3IC10 3IC6

Hvis der viscs --, i displayet i stedet for OK, er der fejl i den pågældende IC.

Sletning af alle forudindstillede programmer:

Bring apparatet i testmode.

Tryk 7.

Alle forudindstillede programmer er nu slettet.

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FM:

Check that the adjustment of the FM detector is correct before the setting is made.

Bring the system into test mode.

Set the receiver to a known station, e.g. 96.0 MHz.

Press GOTO.

Enter the frequency of the known station.

Press STORE.

If the setting is in order, the display will write OK, if it is not, the display will read ERROR.

AM:

Bring the system into test mode.

Set the receiver to a known station, e.g. 520 kHz.

Press GOTO.

Enter the frequency of the known station.

Press STORE.

If the setting is in order, the display will say OK, if it is not, the display will say ERROR.

ROM/RAM tests:

Bring the system into test mode.

Press 8.

Display: OK OK OK

ROM INT-RAM EXT-RAM 3IC3 3IC10 3IC6

If rather than OK the display says --, the IC in question is defective.

Deletion of all preset programmes:

Bring the system into test mode.

Press 7.

All preset programmes have now been deleted.

Serviceprogram for CD delen:

Bring apparatet i testmode.

Tryk CD Der behøver ikke at være lagt plade på.

Tryk 1 Laser tænder og søger fokus (der søges fokus, hver gang der trykkes 1).

- Tænder laser?
- Regulerer FE udgangen fokusmotoramplifier?
- Regulerer fokusmotor?

Tryk 2 Laser slukker.

CD-motor starter (kører mod uret), og Tryk 3 laser går i startposition.

Tryk 4 CD-motor slukker.

Laserarm bevæges mod yderstilling. Tryk 5

Tryk 6 Laserarm bevæges mod centrum.

Fiern netstik.

Ilæg CD-plade, f.eks. nr. 5 (plade uden fejl, bestillingsnr. 3634031).

Tryk CD STOP

Bring apparatet i testmode.

Tryk [PLAY] CD starter (lead in).

Tryk STOP CD stopper.

Displayet kan under afspilning vise følgende fejlmeddelelser.

CD ERR 2 Fokusfejl.

CD ERR 3 Radialfejl.

CD ERR 4 Motorfejl.

CD ERR 5 TL er lav i 50 ms.

CD ERR 6 Stepfejl.

CD ERR 7 Subcodefejl, ingen subcode indenfor 3 sek.

CD ERR 8 TOC fejl; uden for »lead in« område, mens TOC (programindhold) læses.

Service program for the CD section:

Bring the system into test mode.

A disc need not be inserted. Press CD

The laser switches on and searches its Press 1 focus (the focus is searched each time

1 is pressed).

– Does the laser switch on?

- Does the FE output adjust the focus motor amplifier?

Does the focus motor adjust?

The laser switches off. Press 2

Press 3 The CD motor starts (runs anticlockwise), and the laser goes into its start-

ing position.

Press 4 The CD motor switches off.

Press 5 The laser arm is moved towards its extreme peripheral position.

The laser arm is moved towards the Press 6 centre.

Remove the mains plug.

Insert a CD, e.g. disc no. 5 (disc without errors, part no. 3634031).

Press CD STOP

Bring the system into test mode.

Press [PLAY] The CD starts (lead in)

Press STOP The CD stops.

During the playback, the display may give the following error messages:

CD ERR 2 Focus error.

CD ERR 3 Radial error.

CD ERR 4 Motor error.

CD ERR 5 TL (track loss) is low for 50 ms.

CD ERR 6 Step error.

CD ERR 7 Subcode error, no subcode within 3 sec.

CD ERR 8 TOC error; outside the lead-in area while the TOC (table of contents) is being read.

Oversigt over IC ben

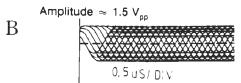
Nedenstående skemaer er en kort beskrivelse af funktionen af de vigtigste ben på servo og decoder IC'erne. De steder hvor 2 IC'er har direkte forbindelse med hinanden, er der kun nævnt benet på den ene IC.

8IC1 TDA8808

PIN	BEMÆRKNINGER	PLAY POSITION	SEARCH POSITION	SERVICE POSITION1	SERVICE POSITION 2	SERVICE POSITION3	SERVICE POSITION4	SERVICE POSITIONS	SERVICE POSITION 6
17	LO (Laser Out).	~3V	~3V	~3V	~1.8V				
18	LM (Laser Monitor) Via LM styres strømforsyningen til laser dioden.	~200 mV	~200 mV	~200 mV					
15	FE (Focus Error). FE styrer focus enheden. Når SI går »high« søges der efter focus punktet. Når apparatet sættes i serviceposition 2 uden plade, vil optikket søge efter focus punktet. På ben 5 vil FE signalet variere mellem 0 V og +4 V.								
23 22 24	D1 D4 er korrektionssignaler for fotodiode kredsløbet. Hvis pladen bevæges når apparatet er i serviceposition 2, skal focusenheden holde focus. Når pladen bevæges, skal der være varierende signaler på ben 7, 8, 9 og 10.								
25	D4								
26	HF (High Frequency). HF information fra de 4 fotodioder.								
3	HF out (High Frequency out). HF out er et forstærket informationssignal til decoderen.	B (Stable)	B (Unstable)						
4	DET (Detector).			Ī					
21 20	RE1 (Radial Error). RE1-2 er styresignaler til sporing af laseren. RE2								
5	SC (Start Capacitor). *Stiger til +5 V hvis focus-punktet er fundet.	~5V	~5V	*~4.6V	~0V	~0V	~0V	~0V	~0V
16	FE lag (Focus Error). *Når pladen bevæges, vil signalet variere.	~0.5V	~0.5V	*~0.5V					
1	GCHF (Gain Control HF).	~2.4V	~2.4V	~3.8V					

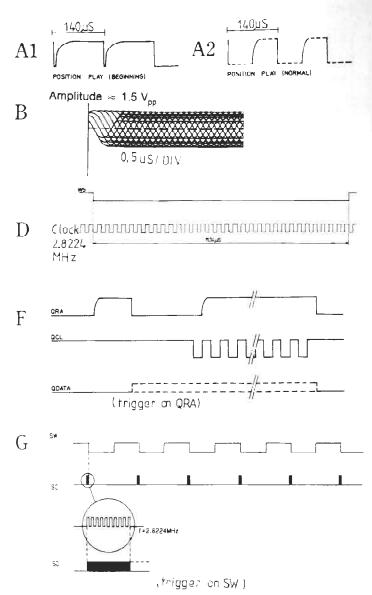
8IC2 TDA8809

PIN	BEMÆRKNINGER	PLAY POSITION	SEARCH POSITION	SERVICE POSITION 1	SERVICE POSITION 2	SERVICE POSITION 3	SERVICE POSITION5	SERVICE POSITION 6
15	RADout	0V	0V	0V				
17	RElay	~2.5V	~2.5V	~2.5V				
23- 24	Offset control	~2.5V	~2.5V	~2.2V	~0.6V			
21	AGC	~1.2V	~1.2V	~4V				
2	osc	580 Hz		580 Hz				



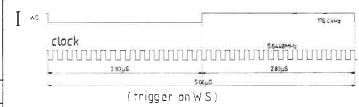
8IC3 SAA7310

PIN	BEMÆRKNINGER	PLAY POSITION	SEARCII POSITION	SERVICE POSITION 1	SERVICE POSITION2	SERVICE POSITION 3	SERVICE POSITION 4	SERVICE POSITIONS	SERVICE POSITION 6
24	MCES (Motor Control). MCES styrer discmotorens hastighed.	A2		A ₂	A_2	A ₁	A2	A2	A ₂
32	HF (High Frequency). Indgang for HF-øje mønster.	B (Stable)	B (Unstable)	~2V	~2V	~2V	~2V	~2V	~2V
34	HFD (High Frequency Detector). HFD vil gå »low« når HF signalet er for svagt. *Ved afspilning af testplade 5A, vil HFD give »low« pulser på spor med afbrydelser og sorte pletter.	*»High«	»Activity«						
4	WS (Word Select)	D	D	D	D	D	D	D	D
3	Clock	D	D	D D	D	D –	_ D	D	D D
2	Data	»Activity«	»Activity«					- -	
1	E Flag (Error Flag). Indikerer utroværdige samples for 8-sample interpolator.	»Low«	»Activity«						
38 40 37	QRA (Q-channel Request Acknowledge). QCL (Q Clock). QData QRA initieres af 8IC7 med »high«, 8IC3 svarer med »low«. Ved forkanten på næste clock puls sættes QRA »high« igen af 8IC7. Når 8IC7 har modtaget nok information (via Q Data), går QRA »low«. Dette gør at QRA tiden varierer.	F F F	F F F	F »High« »High«	F »High« »High«	F »High« »High«	F »High« »High«	F »High« »High«	F »High« »High«
42 44 43	SW (Subcode Word clock). SC (Subcode Clock). SD (Subcode DATA) Efter Motor Start Pulse vil Subcode Word Clock være synlig. Medens en burst på 10 clock pulser er synlig på SC, overføres Q-channel information på SD. Herefter følger P-bit indikation. P-bit indikationen kommer mellem 2 bursts på 10 clock pulser. Ved pause er P-bit indikationen »high« og ved musik er den »low«.	G G G	G G G			G G G			
36	CRI (Counter Reset Inhibit). CRI er »low« ved spring over spor.	»High«	»Activity«						
41	DEEM (Deemphasis). »Low« vcd afspilning af testplade 5 spor 14. »High« vcd afspilning af testplade 5 spor 15.	»Low«	»Low«						
26	OSC. Indgang fra krystal oscillator.	11.3 MHz	11.3 MHz						
29	PD/OC (Phase Detector/Oscillator Control). Pulser fra fasedetektorens udgang integreres og regulerer oscillatorfrekvensen.	~2.5V	~2.5V	~3.5V	~3.5V	~3.5V	~3.5V	~3.5V	~3.5V
31	FB (Feed Back). Fastholder data slicerens arbejdspunkt.	~2V	~2V	~2V	~2V	~2V	~2V	~2V	~2V



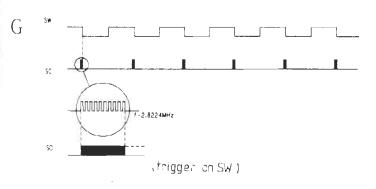
8IC5 SAA 7220

PIN	BEMÆRKNINGER	PLAY POSITION	SEARCH POSITION	SERVICE POSITION1	SERVICE POSITION2	SERVICE POSITION3	SERVICE POSITION 4	SERVICE POSITION 5	SERVICE POSITION 6
18	WS (Word Select)	T	T		,		T		
16	Cłock		I 	I 	I 	I	I 		
15	Data	»Activity«	»Activity«	»Stable«	»Stable«	»Activity«	»Stable«		
22	ATSB (Attenuation Audio Signal). Ved »low« dæmpes signalet 12 dB.								
23	MUSB (Soft Mute). MUSB er »low« ved spring fra et spor til et andet.	»High«	»Low«						
14	DOBM (Digital Output). Fejlkorrigeret audio og subcode data.								



8IC7 MC 68HC05C4

PIN	BEM	ÆRKNINGER	PLAY POSITION	SEARCH POSITION	SERVICE POSITION 1	SERVICE POSITION 2	SERVICE POSITION 3	SERVICE POSITION 4	SERVICE POSITION 5	SERVICE POSITION 6
5	styring tændt. RD (Ready). Med plade på pladeholderen vil RD forblive »low« når focuspunktet er fundet.				~3V	»Low«	»Low«	»Low«	»Low«	»Low«
6			G	G			G			
10	B0)	Tænder radial kontrol. Styrer niveauet på radial servo DAC udgang. I søge position vil der være aktivitet på alle 4 udgange.	»High«		»Low«	»Low«	»Low«	»Low«	»Low«	»Low«
9	B1		»High«		»High«	»High«	»High«	»High«	»High«	»High«
8	B2		»High«		»High«	»High«	»High«	»High«	»Low«	»High«
7	В3		»Low«		»High«	»High«	»High«	»High«	»High«	»High«
36- 37	være forestående. 8IC7 kan så give korrektionssignaler med B0-B3.		»High«		»Low«	»High«	»High«	»High«	»High«	»High«
4			»High«		»Low«	»Low«	»Low«	»Low«	»Low«	»Low«



IC pin survey

The following surveys briefly describes the function of the most important pins of the servo and decoder IC's. Where 2 IC's are directly connected, only the pin of one IC is mentioned.

8IC1 TDA 8808

PIN	REMARKS	PLAY POSITION	SEARCII POSITION	SERVICE POSITION 1		VICE TION 2	SERVICE POSITION3	SERVICE POSITION 4	SERVICE POSITION 5	SERVICE POSITION 6
17	LO (Laser Out).	~3V	~3V	~3V	~:	1.8V				
18	LM (Laser Monitor) Via the LM the power supply for the laser diode is controlled.	~200 mV	~200 mV	~200 mV	_					
15	FE (Focus Error). FE drives the focusing unit. When the \overline{SI} goes 'high', the focusing unit will search for the focal point. When the player is brought into servicing position 2 without disc, the objective will search for the focal point. At pin 5 the FE signal varies between 0 V and +4 V.									
23	D1 D1 D4 are the error signals from the photodetector circuits. When the disc is moved while the disc is in service position 2,									
22	the focusing unit should keep the laser beam in focus. When the disc is moving there should be a changing signal on	i								
24	pins 7, 8, 9 and 10.									
25	D4 J									
26	HF (High Frequency). HF information from the 4 photodiodes.									
3	HF out (High Frequency out). HF ouBis the amplified information signal for the decoder.	(Stable)	B (Unstable)							
4	DET (Detector).									
21	RE1 (Radial Error). RE1-2 are the control signals for the arm during tracking.									
20	RE2									
5	SC (Start Capacitor).*Rises to +5 V if focus point is found.	~5V	~5V	*~4.6V	()V	0V	0 V	0V	0 V
16	FE lag (Focus Error). *When the disc is moved by hand, the signal will vary.	~0.5V	~0.5V	*~0.5V						
1	GCHF (Gain Control HF)	~2.4V	~2.4 V	~3.8 V						

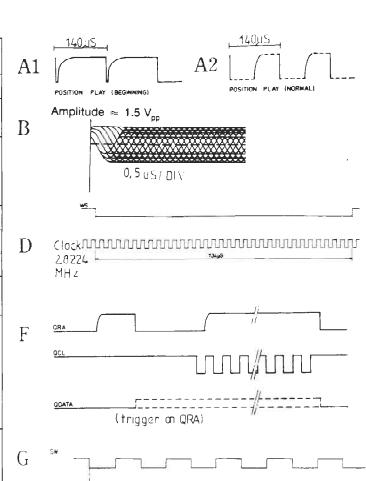
$B \xrightarrow{\text{Amplitude} \approx 1.5 \text{ V}_{pp}} \\ 0,5 \text{ uS/DIV}$

8IC2 TDA 8809

PIN	REMARKS	PLAY POSITION	SEARCH POSITION	1	SERVICE POSITION 2	l	SERVICE POSITION 4	l	SERVICE POSITION 6
15	RADout	0V	0V	0 V					
17	RElay	~2.5 V	~2.5 V	~2.5 V					
23- 24	Offset control	~2.5 V	~2.5 V	~2.2 V	~0.6 V				
21	AGC	~1.2 V	~1.2 V	~4 V					
2	osc	580 Hz		580 Hz					

8IC3 SAA 7310

PIN	REMARKS	PLAY POSITION	SEARCH POSITION	SERVICE POSITION 1	SERVICE POSITION 2	SERVICE POSITION3	SERVICE POSITION4	SERVICE POSITION 5	SERVICE POSITION 6
24	MCES (Motor Control). MCES controlls the speed of the furntable motor.	A ₂		A2	A ₂	A ₁	A2	A2	A ₂
32	HF (High Frequency). HF eye pattern input.	B (Stable)	B (Unstable)	~2V	~2V	~2V	~2V	~2V	~2V
34	HFD (High Frequency Detector). HFD will go 'low' when the HF signal is too low. *When playing test disc 5A, HFD will make low pulses on track numbers with interruption or black dots.	*»High«	»Activity«						
4	WS (Word Select)	D	D	D	D	D	D	D	D
3	Clock	D	D	D	D	D D	D	D D	D
2	Data	»Activity«	»Activity«						
1	E Flag (Error Flag). Indicates untrustworty samples for the 8 sample interpolator.	»Low«	»Activity«						
38 40 37	QRA (Q-channel Request Acknowledge). QCL (Q Clock). QData QRA is initiated by 8IC7 with 'high', 8IC3 answers with 'low'. With the next leading clock pulse (Q CL), the QRA is set 'high' again by 8IC7. When 8IC7 has taken enough information (via Q Data), QRA will go 'low'. This makes the QRA times vary each time.	F F F	F F F	F »High« »High«	F »High« »High«	F »High« »High«	F »High« »High«	F »High« »High«	F »High« »High«
42 44 43	SW (Subcode Word clock). SC (Subcode Clock). SD (Subcode DATA) After Motor Start Pulse, Subcode Word Clock is visible. While the burst of 10 clock pulses appear on SC, the Q-channel information is transferred on SD. Hereafter the P-bit indication follows. The P-bit is 'high' between two bursts of 10 clock pulses in case of pause indication, and 'low' in case of music indication. There will be P-bit indication between two bursts of 10 clock pulses. The P-bit indication is 'high' during pause and 'low' during music.	G G G	G G G			G G G			
36	CRI (Counter Reset Inhibit). CRI is 'low' in case of track jumping.	»High«	»Activity«						
41	DEEM (Deemphasis). 'Low' when playing test disc 5 track no. 14 'High' when playing test disc 5 track no. 15	»Low«	»Low«						
26	OSC. Input from crystal oscillator.	11.3 M Hz	11.3 MHz						
29	PD/OC (Phase Detector/Oscillator Control). Pulses from the output of the phasedetector are integrated and controls the oscillatorfrequency.	~2.5V	~2.5V	~3.5V	~3.5V	~3.5V	~3.5V	~3.5V	~3.5V
31	FB (Feed Back). Keeps the operating point for the data slicer.	~2V	~2V	~2V	~2V	~2V	~2V	~2V	~2V

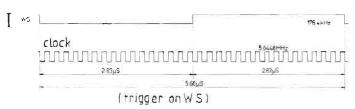


(trigger on SW)

7-13

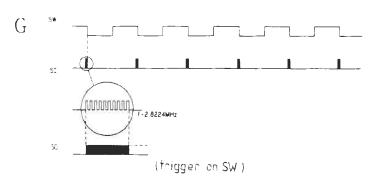
8IC5 SAA 7220

PIN	REMARKS	PLAY POSITION	SEARCH POSITION	SERVICE POSITION 1	SERVICE POSITION2	SERVICE POSITION3	SERVICE POSITION 4	SERVICE POSITION 5	SERVICE POSITION 6
18	WS (Word Select)								
16	Clock	I 	I 	I 	I 	I 	I I		
15	Data	»Activity«	»Activity«	»Stable«	»Stable«	»Activity«	»Stable«		
22	ATSB (Attenuation Audio Signal). At 'low', the signal is lowered by 12 dB.								
23	MUSB (Soft Mute). MUSB is 'low' when jumping from one track to another.	»High«	»Low«						
14	DOBM (Digital Output). Error corrected audio and subcode data.								



8IC7 MC 68HC05C4

PIN	REM	ARKS	PLAY POSITION	SEARCH POSITION	SERVICE POSITION 1	SERVICE POSITION2	SERVICE POSITION 3	SERVICE POSITION 4	SERVICE POSITION 5	SERVICE POSITION 6
5	contr RD (1	tart Initialization). When SI is 'high' the laser supply and the focus of are switched on. Ready). With a disc on the turntable, \overline{RD} stays 'low', when the focal has been found.			~3V	»Low«	»Low«	»Low«	»Low«	»Low«
6	will b	(Motor Start-Stop signal). After the RD has passed to 'low', the SSM pe 'low' for a short moment (<0.2 sec.) and the disc motor amplifier be switched on (controlled by the MCES signal).	G	G			G			
10	B0		»High«		»Low«	»Low«	»Low«	»Low«	»Low«	»Low«
9	B1	Switches on the radial control.	»High«		»High«	»High«	»High«	»High«	»High«	»High«
8	B2	Controls the level on the radial servo DAC output. In search mode, there should be activity on all 4 pins.	»High«		»High«	»High«	»High«	»High«	»Low«	»High«
7	В3		»Low«		»High«	»High«	»High«	»High«	»High«	»High«
36- 37		Track Loss). TL tells 8IC7 that track loss may be imminent, 8IC7 can correction signals with B0-B3.	»High«		»Low«	»High«	»High«	»High«	»High«	»High«
4	1	S (Drop Out Detector Suppression). When \overline{DODS} is 'low', drop-out als do not influence the arm control during track search.	»High«		»Low«	»Low«	»Low«	»Low«	»Low«	»Low«



7-14 7-14

IR DOOR SENSORS, PCB6 og PCB11

Kontroller sendedioderne OD2, OD3, OD5 og OD6

Parallelforbind en IR-modtagerdiode og en 220 ohm modstand, og tilslut et oscilloskop (AC, 1mV/DIV og resistor in parallel, and connect an oscilloscope (AC, 20 us/DIV)

Afmonter 6P46.

Hold IR-modtagerdioden foran hver IR-sendediode og sørg for reflektion bag IR-modtagedioden f.eks. fra et stykke papir.

På oscilloskopet kan der måles en 102 kHz svingning, hvis der er »liv« i systemet.

IR DOOR SENSORS, PCB6 and PCB11

Check the transmitter diodes OD2, OD3, OD5 and OD6 as follows:

Connect an IR receiver diode and a 220 ohm 1 mV/DIV and 20 μ s/DIV). Dismount 6P46.

Hold the IR receiver diode in front of each IR transmitter diode and make sure that there is some kind of reflection behind the IR receiver diode, e.g. from a piece of paper.

A 102 kHz oscillation may be measured on the oscilloscope if the system is "active".

7-14

BEOLAB 2500

Termosikring TF1

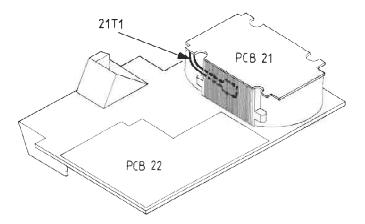
TF1 er en one-shot termosikring. Ved udskiftning er det væsentligt, at den nye termosikring bliver placeret som den gamle.

Bang & Olufsen

BEOLAB 2500

Thermal fuse TF1

The TF1 is a one-shot thermal fuse. When replacing the fuse, it is important that the new thermal fused is placed like the old one.



Netledning

De interne netledninger til Trafo PCB21 skal forbindes således:

han (lille) = IN (PCB21) hun (stor) = OUT (PCB21)

C9. C10

Gummifødderne på 22C9 og 22C10 fungerer som isolering da man i servicestilling kan kortslutte dem på kølepladen.

Højttaler tavs; rød diode

Kontroller:

Sikringerne 21F1 og 21F2. Sikringsmodstandene 22R19 og 22R20. 35V spændingen (katoden på 22D5 eller 22D6). Spændingen mellem 22R86 og 22R83 (Protection) som bør være ca. 17,5 V.

Højttaler tavs; grøn diode

Kontroller:

Sikringer 21F1 og 21F2. Er relæet 22RL1 trukket? ±15 V spændingen. ±37 V spændingen. 27 V AC spændingen. Spændingen over 21IC43, som bør være ca. 18 V.

Spændingen på 21IC3, ben 7, som bør være ca. -37 V. Spændingen på basen af 21TR2 og 21TR5, som bør være ca. -1,5 V \longrightarrow -1 V. Signalvejen.

Mains lead

The internal mains leads to the Transformer PCB21 must be connected as follows:

male (small) = IN (PCB21) female (large) = OUT (PCB21)

C9, C10

The rubber feet on 22C9 and 22C10 serve as insulation, because they may be short-circuited on the cooling plate while in service position.

Speaker silent; red diode

Check:

The fuses 21F1 and 21F2. The fuse resistors 22R19 and 22R20. The 35V voltage (cathode of 22D5 or 22D6). The voltage between 22R86 and 22R83 (Protection); it should be approx. 17.5 V.

Speaker silent; green diode

Check:

The fuses 21F1 and 21F2. Is the relay 22RL1 active? The ± 15 V voltage. The ± 37 V voltage. The 27 V AC voltage.

The voltage across 21IC43, which should be approx. 18 V.

The voltage at 21IC3, pin 7, which should be approx. -37 V.

The voltage at the base of 21TR2 and 21TR5, which should be approx. -1.5 V \longrightarrow -1 V. The signal path.

Slutafprøvning BC 2500

Denne afprøvning bør benyttes som slutkontrol efter endt reparation, og sikrer at hovedparten af Beocenterens funktioner er i orden.

Tilslut Beocenter 2500 til lysnet.

Stand-by diode lyser.

	·
Tast ●	
Tast RADIO	Radio starter på den sidst benyttede station
Tast [GOTO] [TURN] [RADIO]	Indtil display viser AM 150
Tast TUNE >	Søger til AM-station, hvor lydkvaliteten kan bedømmes
Tast GOTO TURN RADIO	Til display viser FM 87,5
Tast TUNE >	Søger til FM-station, hvor lydkvalitet en k an bedømmes
llæg kassettebånd for optagelse	
Tast [RECORD] [RECORD] Optag 1 min.	Optagelse starter
Tast RETURN	Spoler tilbage til optagestart
Tast TAPE	Optagelse afspilles, hvorved lydkvaliteten kan bedømmes
Tast LOAD	CD-clamper åbnes
llæg CD-plade	
Tast CD	CD-clamper lukker og afspilning 1 starter
Tast STOP	Lyt efter støj
Tast CD	Afspilning fortsætter
Tast højeste nummer på CD	Søger til sidste nummer og starter afspilning
Tast LOAD	Fjern CD-plade og bånd fra Beocenteren
Tast • med fjernbetjening	CD-clamper og døre lukker

7-16

Bang & Olufsen

Final Testing of BC 2500

This testing procedure should be used as a final check after completion of repairs to ensure that the majority of the Beocenter's functions are in working order.

Connect Beocenter 2500 to mains.

Stand-by diode lights up.

Key ●	
Key RADIO	Radio starts on the station last used
Key [GOTO] [TURN] [RADIO]	Until display shows AM 150
Key TUNE >	Searches for AM station on which to evaluate sound quality
Key [GOTO] [TURN] [RADIO]	Until display shows FM 87.5
Key TUNE >	Searches for FM station on which to evaluate sound quality
Insert cassette for recording	
Key [RECORD] [RECORD] Record 1 min.	Recording starts
Key [RETURN]	Rewinds to start of recording
Key TAPE	Recording is played back, enabling sound quality to be evaluated
Key LOAD	CD clamper opens
Insert CD	
Key [CD]	CD clamper closes and playback 1 starts
Key STOP	Listen out for noise
Кеу [СО]	Playback continues
Key highest number on CD	Searches for last number and starts playback
Key LOAD	Remove CD and tape from Beocenter
Key ● using remote control	CD clamper and doors close

ISOLATIONSTEST

Ethvert apparat skal isolationstestes efter at det har været adskilt. Testen udføres når apparatet igen er helt samlet og klar til udlevering til kunden.

Isolationstest for Beosystem 2500

Isolationstesten udføres på følgende måde: De to stikben på netstikket kortsluttes og tilsluttes en af terminalerne på isolationstesteren. Den anden terminal fra isolationstesteren tilsluttes stelbenet i hovedtelefonstikdåsen.

OBS!

For at undgå beskadigelser på apparatet er det vigtigt, at begge terminaler fra isolationstesteren har virkelig god mekanisk kontakt.

Der drejes nu langsomt med spændingsreguleringen op isolationstesteren indtil en spænding på 1,5 – 2 kV er opnået. Her skal den holdes i 1 sekund, derefter drejes der langsomt ned for spændingen igen.

Der må ikke på noget tidspunkt under testen forekomme overslag.

INSULATION TEST

Each set **must** be insulation tested after dismantling. The test is to be performed when the set has been re-assembled and is ready for delivery to the customer

Insulation test for Beosystem 2500

Make the insulation test as follows: Short-circuit the two plug pins of the mains plug and connect one of the terminals of the insulation tester. Connect the other terminal of the insulation tester to the chassis pin of the headphone socket.

N.B.!

To avoid ruining the set, it is essential that both insulator test terminals are in really good mechanical contact.

Now turn slowly the voltage control of the insulation tester until a voltage of 1.5 - 2 kV is obtained. Hold it there for 1 second, then turn slowly the voltage down again.

At no point during the testing procedure any flashovers are permissible.

Beocenter 2300

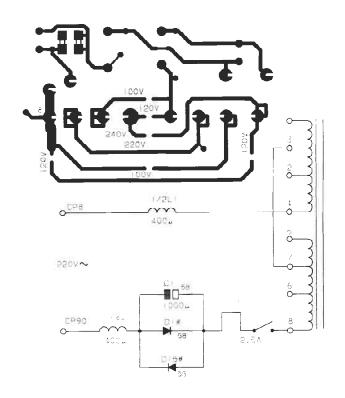
Type 2611, 2612 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620



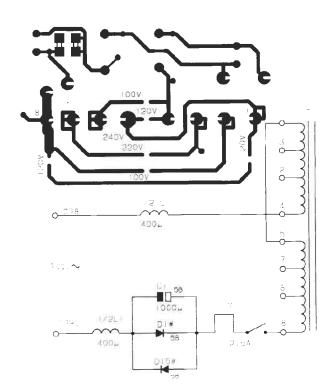
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WIRING OF TRANSFORMER

Beocenter 2300, PCB 2 Type 2611, 2616 EU 220 V~

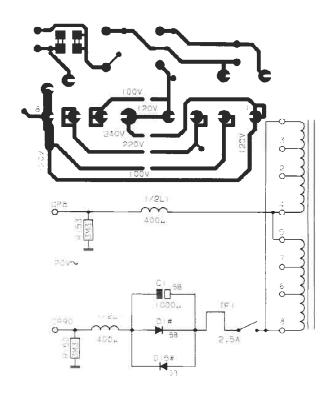


Type 2612, 2615, 2617, 2620 GB, AUS 240 V∼



9-1

Type 2613, 2618 CND, USA 120 V~



Type 2614, 2619 JPN 100 V~

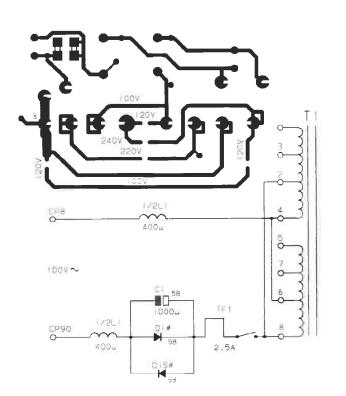


DIAGRAM A FM/AM, RF, IF decoder

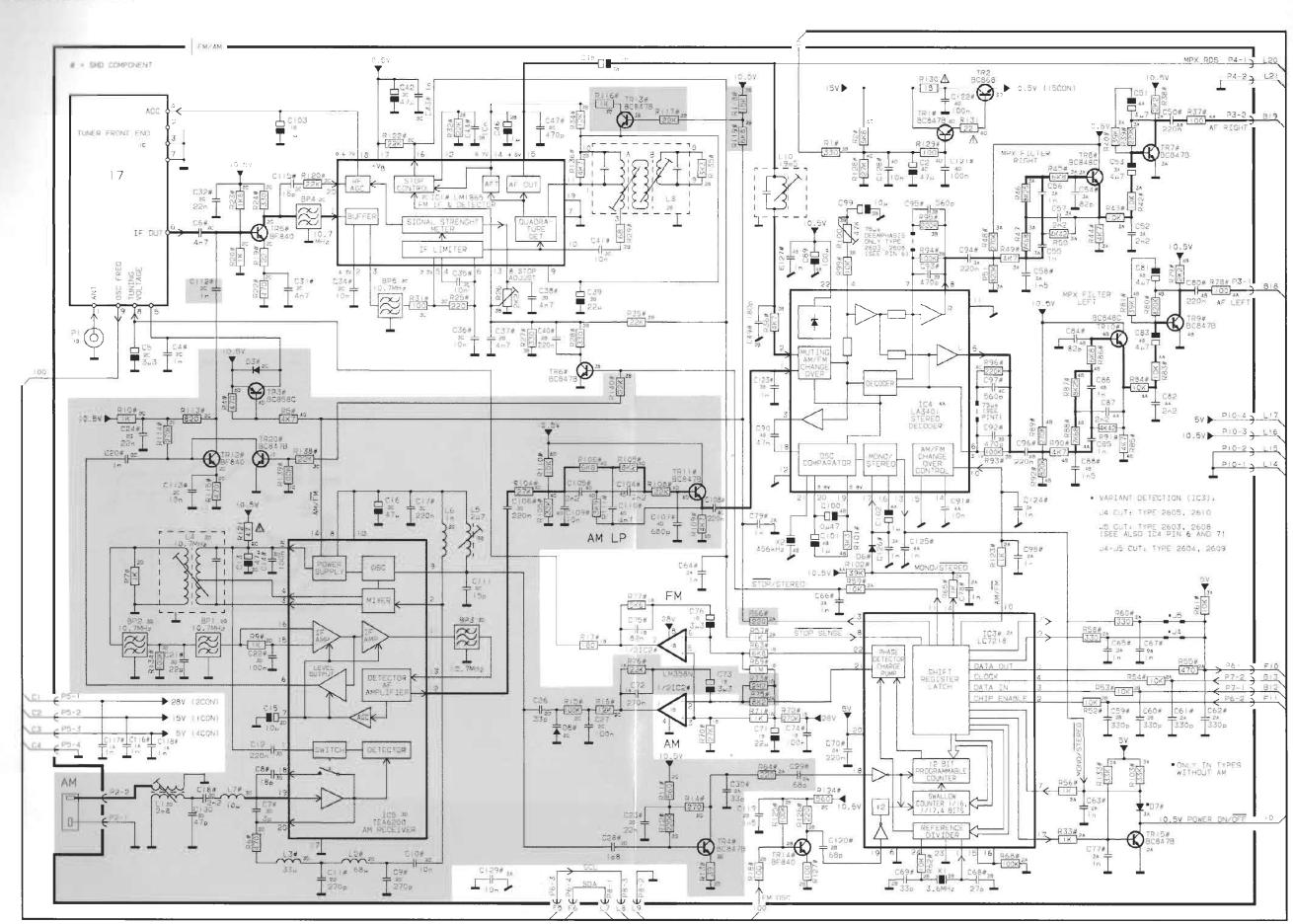


DIAGRAM F MICROCOMPUTER

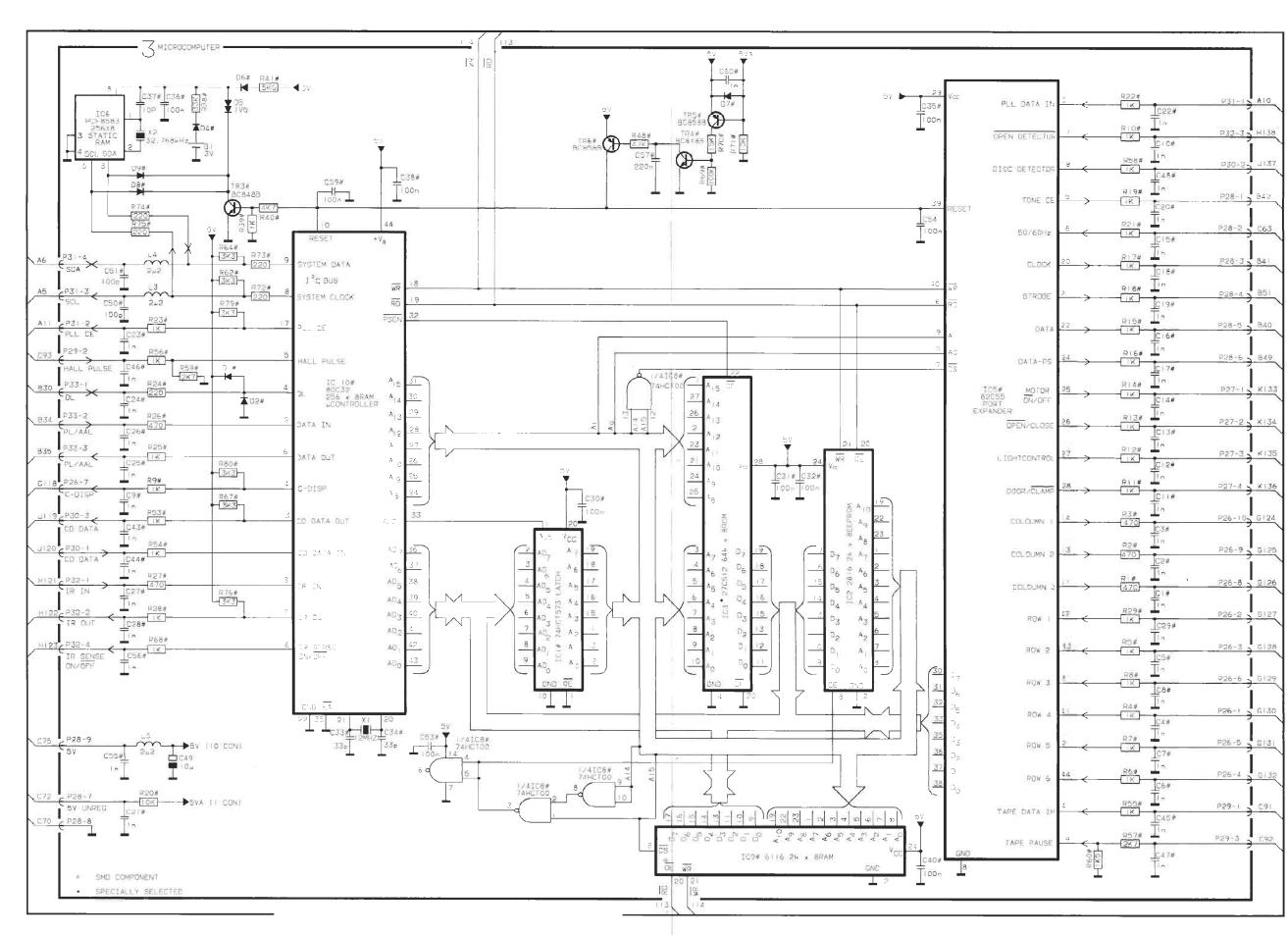


DIAGRAM G DISPLAY AND KEYBOARD

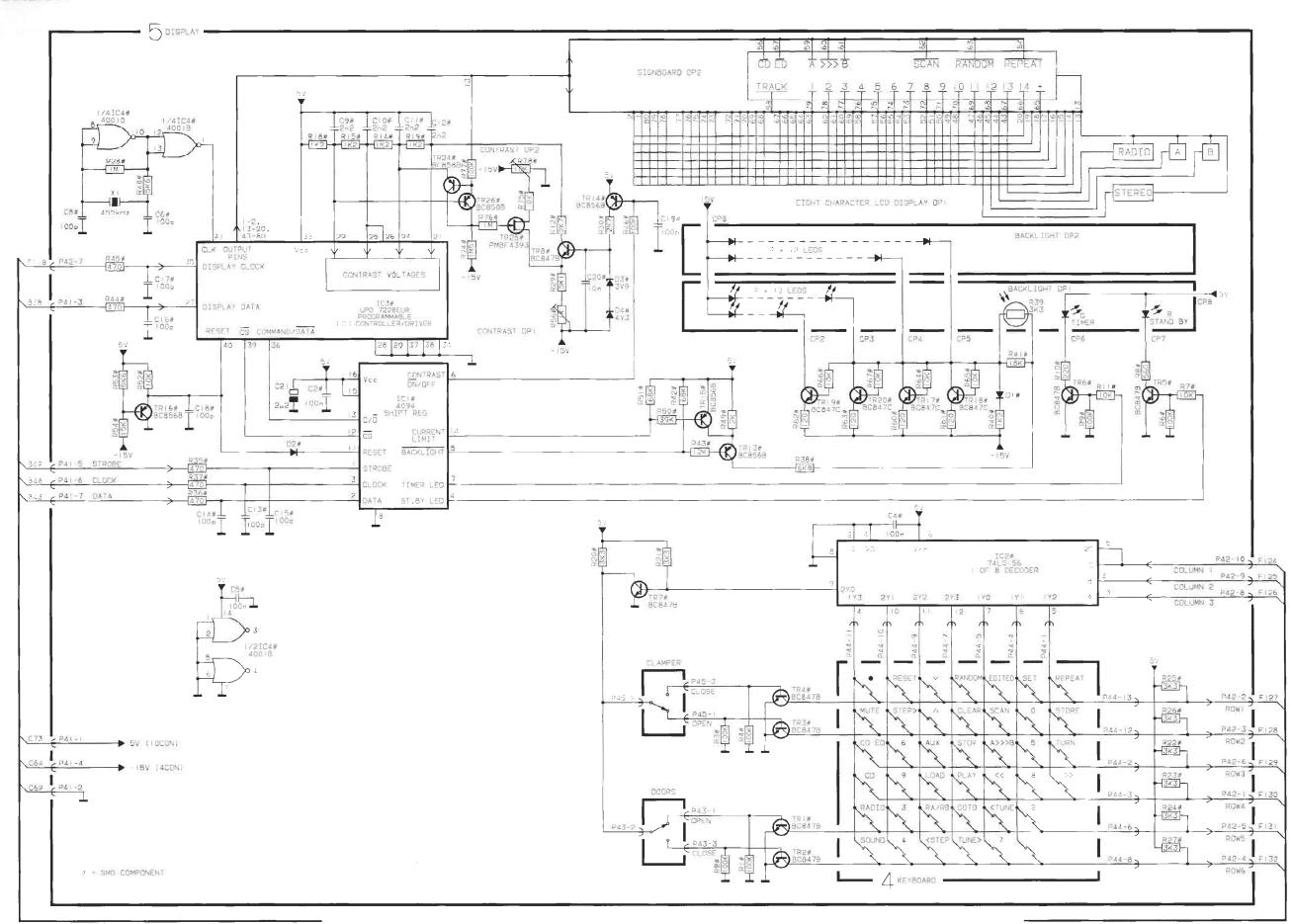
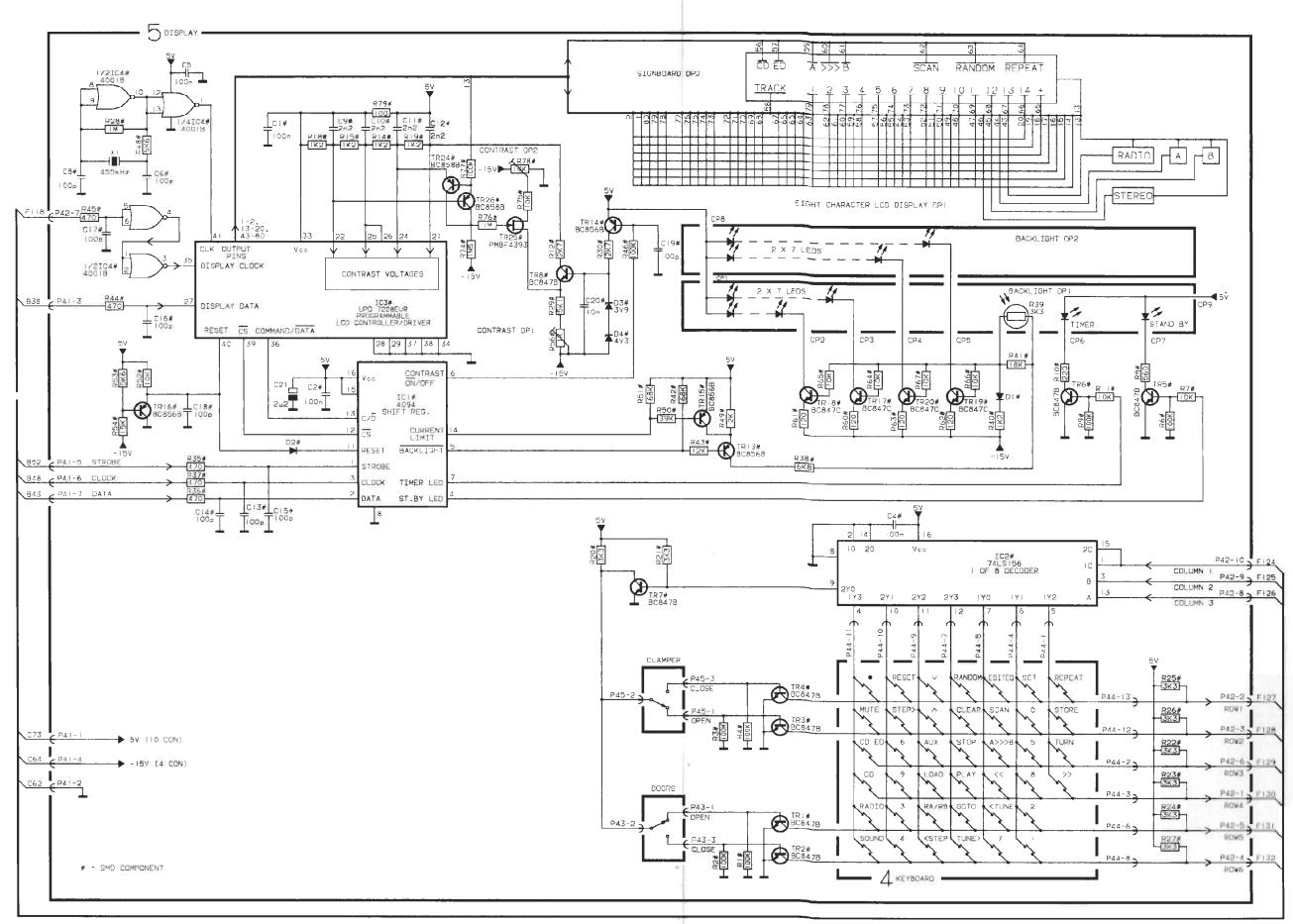


DIAGRAM G DISPLAY AND KEYBOARD VERSION E



10-3b

PCB5 Display, version E

10-3b

10-3b

Corrections

Page 11-1



The correct part no. for PCB03 is 8001376.

3IC2△ has been changed to 8341125 3IC3 is missing 3IC3*△ 8341573 27C512

* special selected sample.



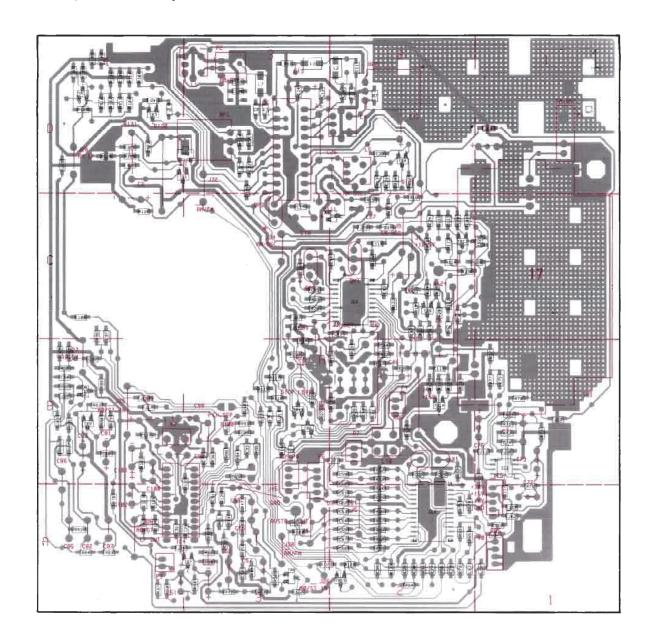




: rear side

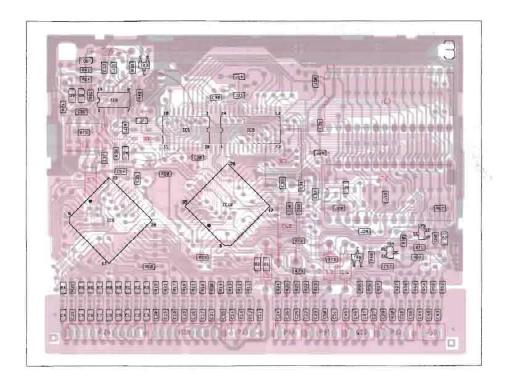
: rear side

PCB 1, Tuner and IF System

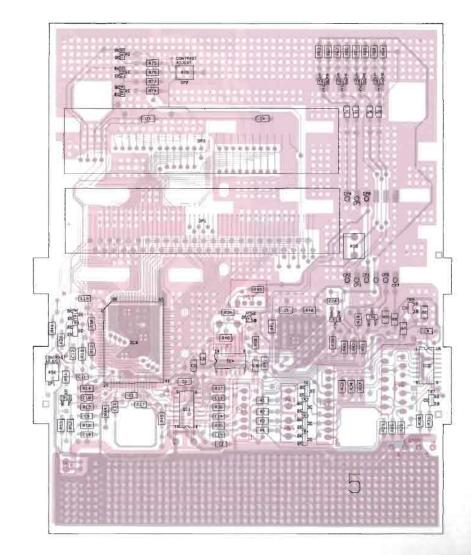


PCB 3, Microcomputer

10-4



PCB 5, Display

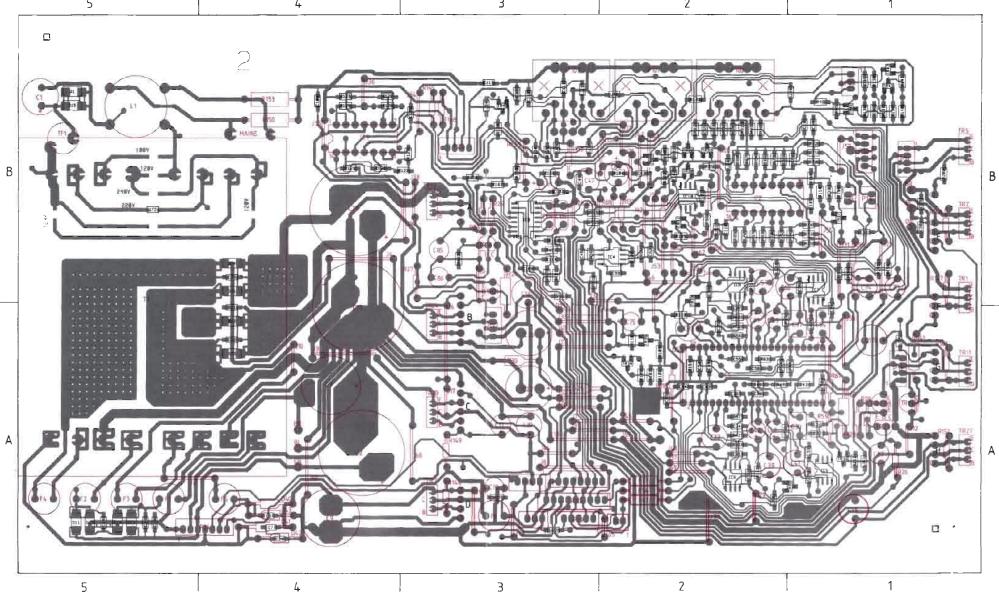


10-5

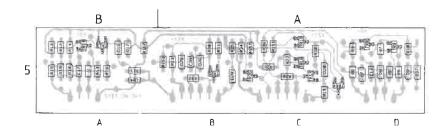
Bang & Olufsen

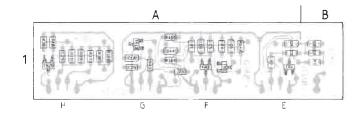
PCB 2, Pre. Amp. and Power Supply





: rear side





11-1

LIST OF ELECTRICAL PARTS

20	51	57	151	250		
c B	: B	\$ 5	[<u>.</u>],	ثَلَ		

Resistors not referred to are standard, see page 3-12

\(\text{Lindicates that static electricity may destroy the component} \)

* Specially selected or adapted sample

PCB 01 8001413 FM/AM 8001415 FM/AM, type 2609 and 2619

PCB 02 8001289, Power Supply 8001378-LF 28V (16 pin) 8001379·LF 15V (20 pin) 8001385-Power Link

PCB 03, 8001376 Microcomputer

PCB 05, 8001362 Display

TR20	8320755	051 BC847B			
C7 C8 C10	4000267 4000276 4010157	3pF ±0.25 50V 18pF 5% 50V 10nF 10% 50V	C28 C129 C130	4000357 4010157 4000234	1.8pF ±0.25 50V 10nF 10 % 50V 47pF 5 % 50V
L1	8020909	Coil 2.8mH	L7	8020772	Coil 10µH
TR16 TR23	8320497 8320497	020 BC547B 020 BC547B	TR28	8320816	051 BC846B
C2 C111-	4201111 4010132	6800µF 20% 16V 1nF 10% 50V	C113- C114	4010157	10nF 10% 50V
C112			C115	420 0682	100µF 20% 16V
R56	5011914	5.1kΩ 1 % 1/8W	R68	5011914	5.1kΩ 1% 1/8W
IC2∆	8341125	2816C	IC3∆*	8341573	27C512
C60	4010132	1nF 10% 50V			
IC3∆	8341079	151 µPD7228			
IC3Δ ————————————————————————————————————			TR25	8320955	057 PMBF4393
IC3\(\triangle \)	8341079	151 μPD7228	TR25 TR26	8320955 8320616	057 PMBF4393 051 BC858B
IC3Δ TR17- TR20	8341079 8320936	151 μPD7228 051 BC847C			
TR17- TR20 TR24	8341079 8320936 8320616	151 μPD7228051 BC847C051 BC858B	TR26	8320616	051 BC858B
TR17- TR20 TR24 D3	8341079 8320936 8320616 8300577 5011914	 151 μPD7228 051 BC847C 051 BC858B 250 Z3.9V 2% 5.1kΩ 1% 1/8W 	TR26	8320616 8300661	051 BC858B 250 Z4.3V 2%
TR17- TR20 TR24 D3 R29 R40 C9- C12	8341079 8320936 8320616 8300577 5011914 5011912 4010170 7220714	151 μPD7228 051 BC847C 051 BC858B 250 Z3.9V 2% 5.1kΩ 1% 1/8W 1.2kΩ 1% 1/8W 2.2nF 10% 50V Plug 7 pole	TR26 D4 R78 C19 C20 P45	8320616 8300661 5370400 4000241 4010157 7220710	051 BC858B 250 Z4.3V 2% 10kO 25% 0.1W 100pF 5% 50V 10nF 10% 50V Plug 3 pole
TR17-TR20 TR24 D3 R29 R40 C9-C12 P41 P42 P43	8341079 8320936 8320616 8300577 5011914 5011912 4010170 7220714 7220717 7220710	151 μPD7228 051 BC847C 051 BC858B 250 Z3.9V 2% 5.1kΩ 1% 1/8W 1.2kΩ 1% 1/8W 2.2nF 10% 50V Plug 7 pole Plug 10 pole Plug 3 pole	TR26 D4 R78 C19 C20	8320616 8300661 5370400 4000241 4010157	051 BC858B 250 Z4.3V 2% 10kO 25% 0.1W 100pF 5% 50V 10nF 10% 50V
TR17-TR20 TR24 D3 R29 R40 C9-C12 P41 P42	8341079 8320936 8320616 8300577 5011914 5011912 4010170 7220714 7220717	151 μPD7228 051 BC847C 051 BC858B 250 Z3.9V 2% 5.1kΩ 1% 1/8W 1.2kΩ 1% 1/8W 2.2nF 10% 50V Plug 7 pole Plug 10 pole	TR26 D4 R78 C19 C20 P45 P46	8320616 8300661 5370400 4000241 4010157 7220710 7220724	051 BC858B 250 Z4.3V 2% 10kO 25% 0.1W 100pF 5% 50V 10nF 10% 50V Plug 3 pole Plug 2 pole

8001473, Backlight

All other electrical parts are identical with chapter 3.

12-1

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LIST OF MECHANICAL PARTS

See drawing page 4-1

			
Front	05 modul		
	0506		Holder top (DP2)
		3131292	Holder bottom (DP1)
			(DF1)
	9003	3904124	Alu foil with tape
	9004		Front piece with
			alu foil
	9029	3322137	Window
	9028	2776226	Set of buttons
	The Tape	Mechanisı	m is replaced by:
		3342051	Counterweight
		3124129	Holder f. counter-
			weight
		2572044	Holder f. clavier
Chassis	See draw	ing page	4-4
		0.0	
	01 modul	8001413	FM/AM
			FM/AM, type 2609
			and 2619
	03 modul	8001376	Microcomputer
	9143	2548251	Bracket
Parts not shown	6276495	Main wire	e bundle
	6100040	Mains cal	blo Jonan
	b100Z48	WIATHS CA	me, Japan
	6100248	Mains cal	
	$\frac{6100248}{3392405}$	Mains cal Outer car	ble, Aus. rton
	6100248	Mains cal	ble, Aus. ton

All other mechanical parts are identical with chapter 4.

13-1

Display, PCB 5 (BS 2300)

Kontrastjustering

Sæt PCB 5 i serviceposition (se side 6-3), Lamp B loddes fra og 4 skruer afmonteres.

Påsæt CD. Tast CD

Juster med 5R78 (SMD) til minimum kontrast i display 2 (DP2).

Tast RADIO

Juster med 5R56 (SMD) til maximum kontrast i display 1 (DP1). Skru ned for kontrasten indtil lyset netop forsvinder i de lyssegmenter, der er uvedkommende for den aktuelle tekst i displayet.

Tast CD

Juster med 5R78 (SMD) til maximum kontrast i display 2 (DP2). Skru ned for kontrasten indtil lyset netop forsvinder i de lyssegmenter, der er uvedkommende for den aktuelle tekst i displayet. Display, PCB 5 (BS 2300)

Contrast adjustment

Bring PCB 5 into service position (see page 6-3). Unsolder Lamp B and remove 4 screws.

Load a CD. Press CD

Adjust to minimum contrast in display 2 (DP2) by means of 5R78 (SMD).

Press RADIO

Adjust to maximum contrast in display 1 (DP1) by means of 5R56 (SMD).

Reduce the contrast until the light just disappears in those light segments which are not relevant to the text currently being displayed.

Press CD

Adjust to maximum contrast in display 2 (DP2) by means of 5R78 (SMD).

Reduce the contrast until the light just disappears in those light segments which are not relevant to the text currently being displayed.

Display, PCB 5 (BS 2300)

Kontrasteinstellung

PCB 5 in Service-Position bringen (siehe Seite 6-3), Lampe B ablöten und 4 Schrauben abmontieren.

CD aufsetzen und CD drücken.

Mit 5R78 (SMD) auf minimalen Kontrast im Display 2 (DP2) einstellen.

RADIO drücken.

Mit 5R56 (SMD) auf maximalen Kontrast im Display 1 (DP1) einstellen. Kontrast hinabdrehen, bis das Licht in den Leuchtsegmenten, die für den aktuellen Displaytext ohne Bedeutung sind, gerade verschwindet.

CD drücken.

Mit 5R78 (SMD) auf maximalen Kontrast im Display 2 (DP2) einstellen. Kontrast hinabdrehen, bis das Licht in den Leuchtsegmenten, die für den aktuellen Displaytext ohne Bedeutung sind, gerade verschwindet. Affichage, carte PCB 5 (BS 2300)

Réglage du contraste

Amener la carte PCB 5 en position de maintenance (voir page 6-3). Dessouder le voyant B et enlever les 4 vis.

Charger un CD. Appuyer sur CD

A l'aide de 5R78 (CMS), régler pour avoir un contraste minimal sur l'afficheur 2 (DP2).

Appuyer sur RADIO

A l'aide de 5R56 (CMS), régler pour avoir un contraste maximal sur l'afficheur 1 (DP1). Diminuer le contraste jusqu'à extinction des segments lumineux sans rapport avec l'indication instantanée de l'afficheur.

Appuyer sur CD

A l'aide de 5R78 (CMS), régler pour avoir un contraste maximal sur l'afficheur 2 (DP2). Diminuer le contraste jusqu'à extinction des segments lumineux sans rapport avec l'indication instantanée de l'afficheur.

Beocenter 2500

Type 2601, 2602, 2603, 2604 2605, 2606, 2607, 2608 2609, 2610

Corrections



MD components
CABLE DES MATIERES CHÉMAS 14 CMS 14-5 Corrections 14-6
7

14-1

DIAGRAM G DISPLAY AND KEYBOARD, VERSION I

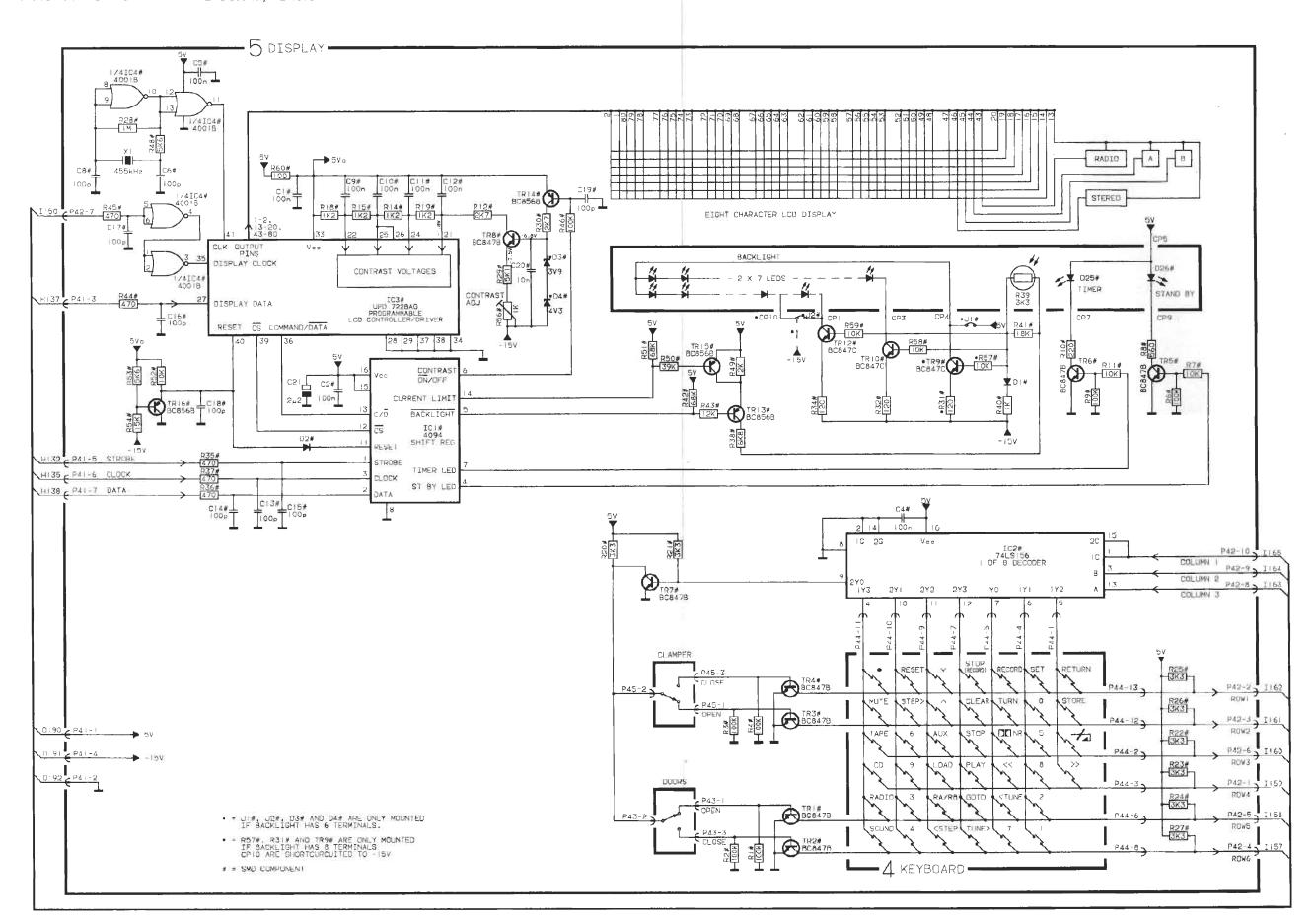
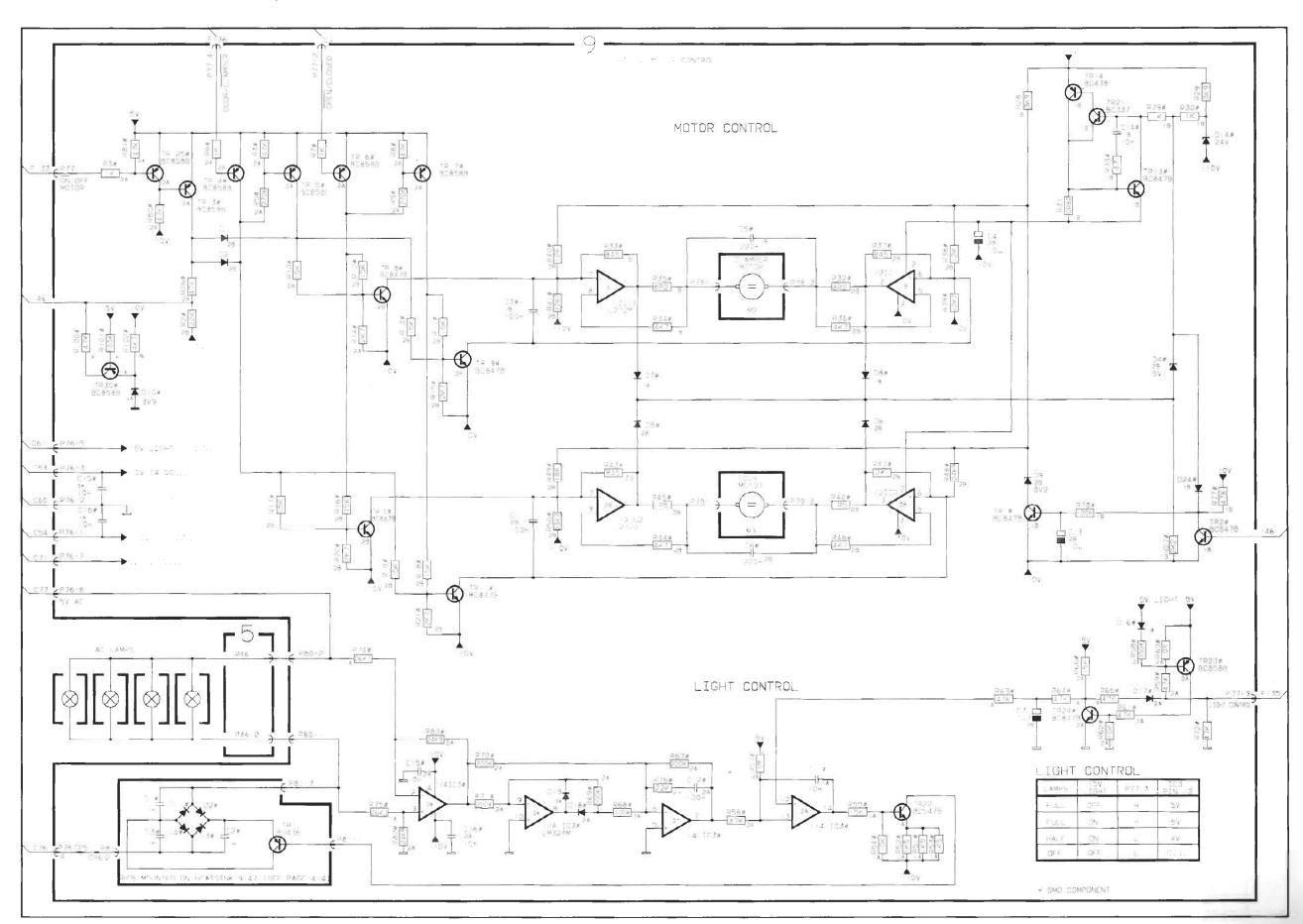
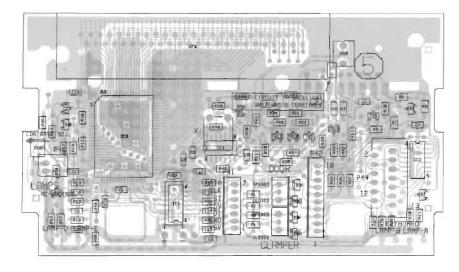


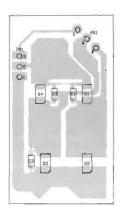
DIAGRAM K LIGHT AND MOTOR CONTROL, VERSION G



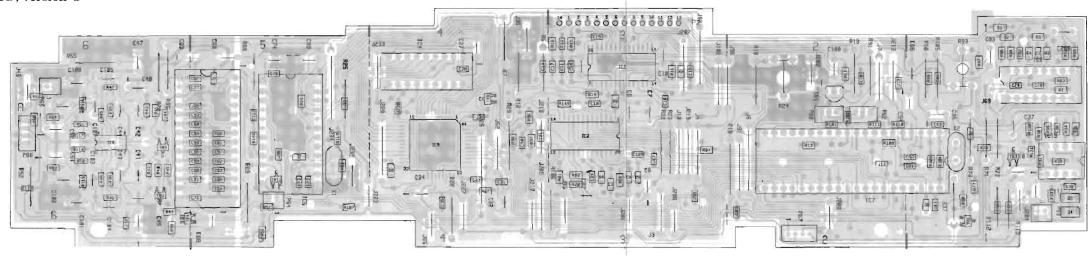
PCB5, Display, Version I



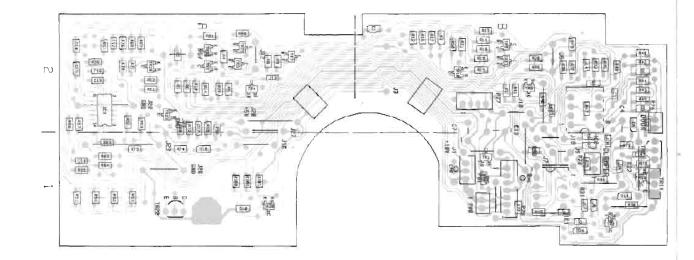
PCB mounted on heatsink 9147 (see page 4-4)



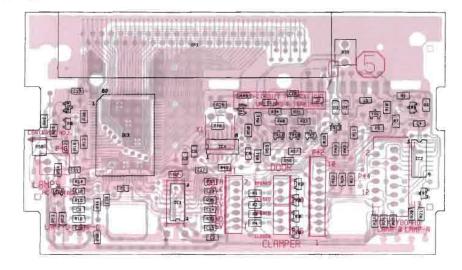
PCB8, CD, Version G



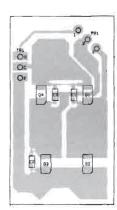
PCB9, Light and motor control, Version G



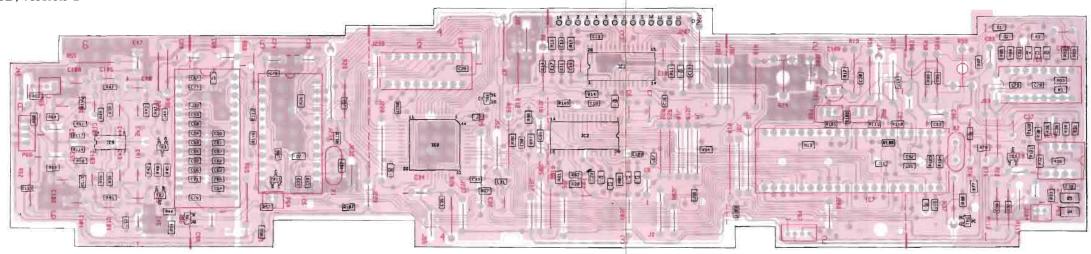
PCB5, Display, Version I



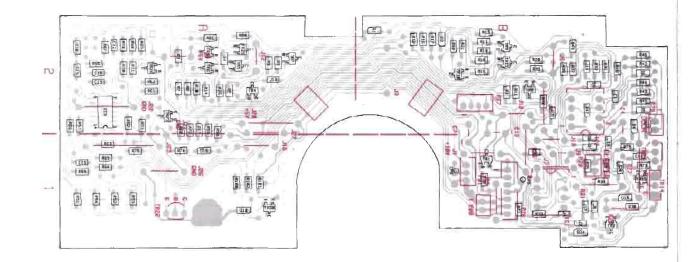
PCB mounted on heatsink 9147 (see page 4-4)



PCB8, CD, Version G



PCB9, Light and motor control, Version G



Corrections

CORRECTIONS

CORRECTIONS							
Diagrams							
Page 1-11		17C2 has been changed to 27pF 5% 50V 4000257 17C24 has been changed to 68nF 5% 63V 4130270					
Page 2-2		1C49 has been connected to 1IC4 pin 2 The correct output mode for 1IC3 pin 11 is: STOP/STEREO.					
Page 2-3		The correct output mode for 2IC3 pin 12: SPEAKER $\overline{\text{ON}}/\text{OFF}$ P25-4 (TO HEADPHONE PCB18): SPK ON/ $\overline{\text{OFF}}$.					
Page 2-4	The resistor connected to (R11). The correct name i	emitter on 2TR14 (-15V) is named wrong s R14.					
	2R11 has been changed to	47KΩ 2% 1/8W 5011250.					
	7IC8 pin 5 is positive inpu	nt (+), pin 6 is negative.					
Page 2-7	Connections:	B63 = C63 B70 - C70 B72 = C72 B75 = C75					
Page 2-8	Connections:	B62 = C62 B64 = C64 B73 = C73					
Page 2-9	Connections:	B67 = C67 B69 = C69 B74 = C74					
Page 2-11	Connections:	$ \begin{array}{rcl} $					
Page 2-12	Connections:	B53 = C53 B54 = C54 B60 = C60 B61 = C61 B71 = C71 B76 - C76 B77 = C77					
Page 2-13	10C4 has been changed to 10R6 has been changed to	10C3 has been changed to 10n 10% 50V 4010157 10C4 has been changed to 2n2 10% 50V 4010170 10R6 has been changed to 270 KΩ 2% 1/8W 5011262 10R4 has been changed to 33Ω 1/8W 5011659					
Page 2-15	Basic and emitter of 1TR6 (1TR6 and 1TR13 is alike	6 coordinate 3B has been interchanged).					

Bang & Olufsen

List of electrical parts			-					
Page 3-1	1C7 has been changed to 3pF ±0.25pF 50V, 4000267 IC8 has been changed to 18pF 5% 50V, 4000276 1C10 has been changed to 10nF 10% 50V, 4010280							
	1C130	omponent 4000234 8020909	47p	oF 5% 50V l transformer				
Page 3-5	PCB05	5:						
	5IC3 i	s missing.	1IC3	∆ 8341079 147	D7228			
	P41 P42	is missing 7220714 7220717 7220710	Plu Plu	g 7 pole g 10 pole g 3 pole	P44 P45 P46	7210853 7220710 7220724	Plu	g 13 pole g 3 pole g 2 pole
Page 3-10				ged to 10n 10% ged to 2n2 10%				
Page 3-11	17C24	has been	char	nged to 68n 5%	63V 4	130270.		
Page 3-12	From PCB22 version G: 22IC1△ has been changed to 8350085 STK 4171-V 22C9 and 22C10 has been changed to 4201158 3300µF ±20% 50V							
List of mechanical parts								
Page 4-2	Two s	screws for	cove	r 9007 2011047	7 2.5x5	5		
Page 4-6	9207 Rear part left, has been changed to 3430584 Rear part right, has been changed to 3430585 9215 Rear plate left, has been changed to 3452653 Rear part right, has been changed to 3452655 9217 Baffle right, has been changed to 3440147 Baffle left, has been changed to 3440148 9219 Ornamental frame, has been changed to 3451241							
PCB 05, 8001309	New co	omponents						
DISPLAY VERSION I	D3	8300577	250	3.9V 2%	D4	8300661	250	4.3V 2%
	R29	5011914		5.1 kΩ 1% 1/8W				
	C19 C20	4000241 4010157	_	100 pF 5% 50V 10 nF 10% 50V	C21	4200517		2.2µF 20% 50V
PCB 09, 8001322	TR30	8320616	051	BC 858B	_			
LIGHT AND MOTOR CONTROL VERSION G	D10	8300577	250	3.9V 2%				
	R75 1/8W	5011595		26.7kΩ 1% 1/8W	R101	5011600		100 kΩ 1%
	C11	4010280		10 nF 10% 50V				

CD New Version CDM 12

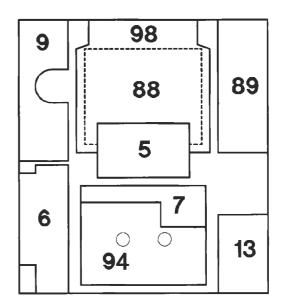
Beocenter 2300-2500 Master Panel AV9000 BeoSound Ouverture



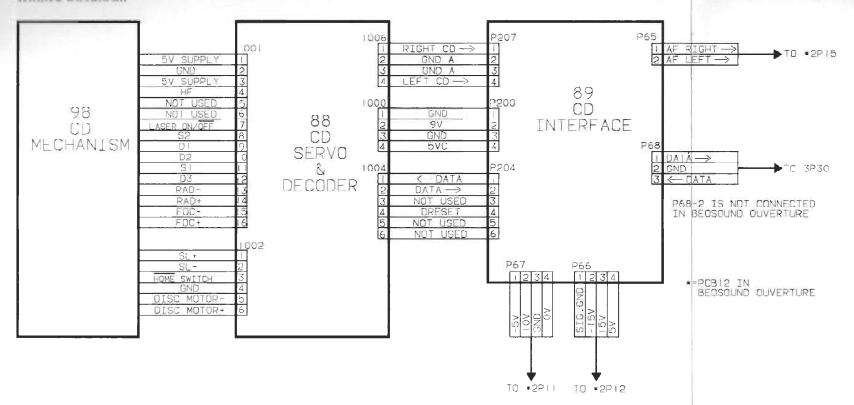
CONTENTS Block diagrams 15-1 Diagrams 15-2 List of electrical parts 16-1 List of mechanical parts 16-2 Modifications 17-1

Survey of modules

88 CD Servo & Decoder	diagram X
	page 15 - 3
89 CD Interface	diagram I&E
	page 15 - 2
98 CD Mechanism	diagram X
	page 15 - 3



WIRING DIAGRAM



BLOCK DIAGRAM FOR CD

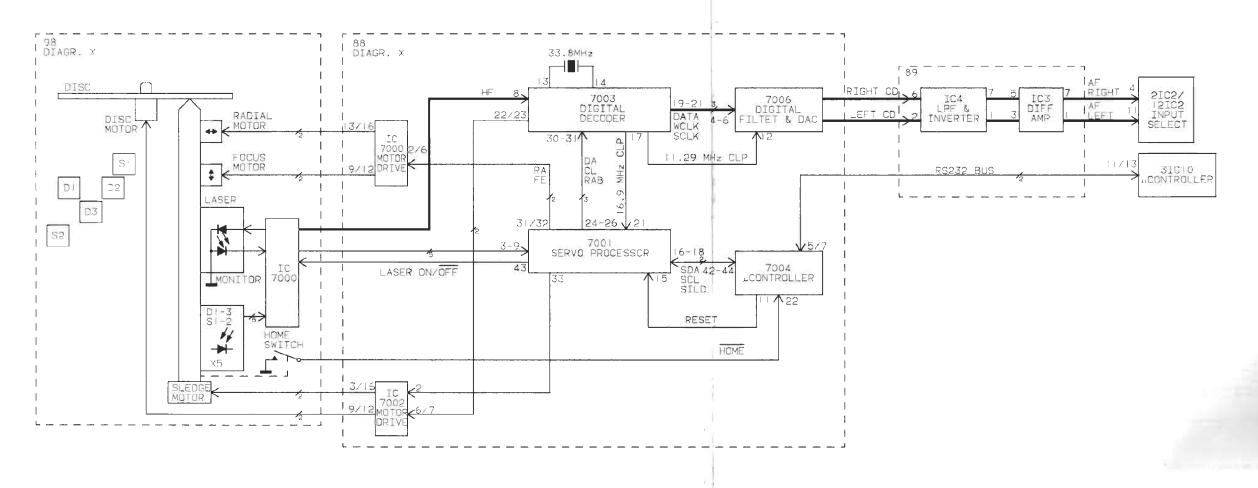
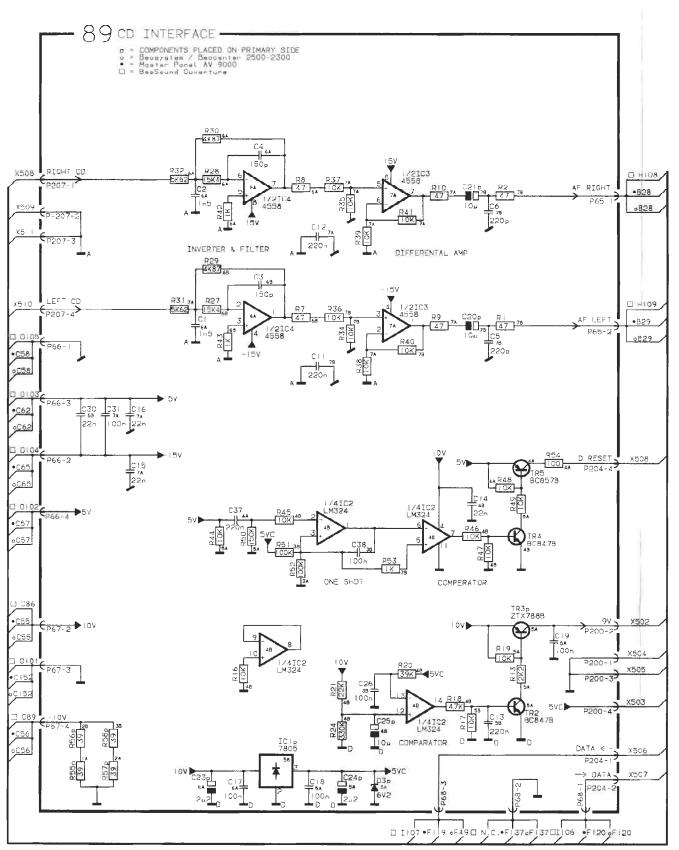
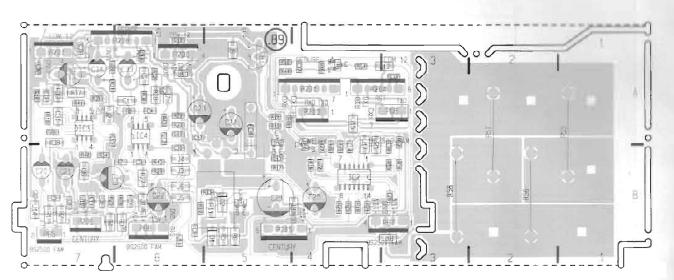


DIAGRAM I & J CD INTERFACE (for BeoSystem/Beocenter 2500-2300 and Master Panel AV 9000) DIAGRAM E & F CD INTERFACE (for BeoSound Ouverture)



PCB 89, CD Interface



PCB 88, CD Servo & Decoder

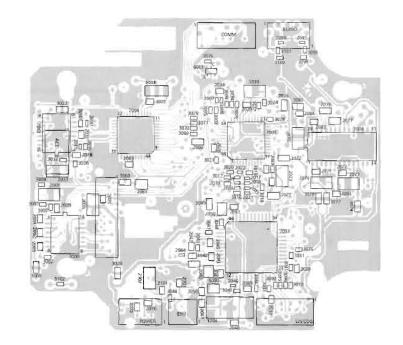
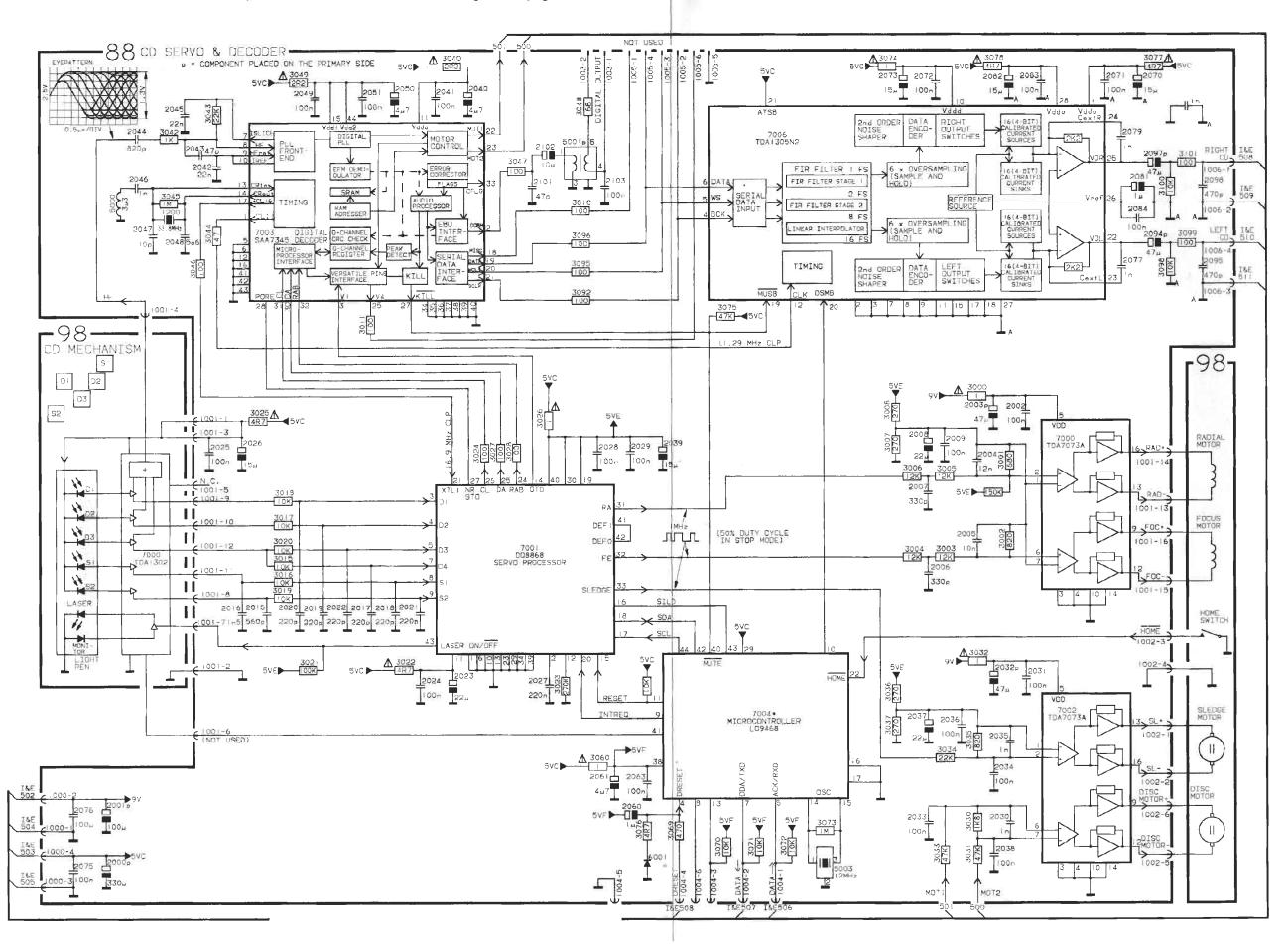


DIAGRAM X CD SERVO & DECODER (The connections I&E refers to the diagram on page 15-2)



LIST OF ELECTRICAL PARTS

19	51	56	106	136	147	150	209
C	E B				وا	1->	A TE

Resistors not referred to are standard, see page 16-2

△ indicates that static electricity may destroy the component.

* Specially selected or adapted sample.

PCB 88, 8001868 CD Servo & Decoder

7000	8342495		7003Δ	8342496	
7001A 7002	8342542 8342495		7004∆* 7006∆	8342670 8342497	
6001	8300979	056 BAS16			
3000	5024000		3040	5024001	
3001		680Ω 5% 1/16W	3043		22kΩ 5% 1/16W
3002		820Ω 1% 1/16W	3044		47Ω 5% 1/16W
3003-	5013250	12kΩ 1% 1/16W	3045		1MΩ 5% 1/16W
3008		1880 50/ 1/15/11	3046-	5013225	100Ω 5% 1/16W
3010-	5013225	100Ω 5% 1/16W	3047		500 50/ 4/45/44
3011	5013340	101 0 50/ 1/1514/	3048		68Ω 5% 1/16W
3015-	5013249	10kΩ 5% 1/16W	3049	5024001	
3020 3021	E013361	100kO EN 1/160M	3060	5024000	470Ω 5% 1/16W
3021	5024004	100kΩ 5% 1/16W	3069 3070-		10kΩ 5% 1/16W
3023		270kΩ 5% 1/16W	3070-	3013243	10K2 3/0 1/10W
3023		100Ω 5% 1/16W	3074	5024000	10
3025	5024004		3075		47kΩ 5% 1/16W
3026	5024000		3076		4.7Ω 5% 1/16W
3027-		100Ω 5% 1/16W	3077-	5024004	
3028			3078		
3030	5013240	1.8kΩ 5% 1/16W	3092	5013225	100Ω 5% 1/16W
3031		47kΩ 5% 1/16W	3095-		100Ω 5% 1/16W
3032	5024000	1Ω	3096		
3033	5013257	47kΩ 5% 1/16W	3098	5013249	10kΩ 5% 1/16W
3034	5013253	22kΩ 5% 1/16W	3099	5013225	100Ω 5% 1/16W
3035	5013236	820Ω 1% 1/16W	3100	5013249	10kΩ 5% 1/16W
3036-	5013230	270Ω 1% 1/16W	3101	5013225	100Ω 5% 1/16W
3037			3102	5013249	10kΩ 5% 1/16W
2000	4201350	330µF 10 V	2028-	4010274	100nF -20+80% 25V
2001	4201351	100μF 25V	2029		
2002	4010274	100nF -20+80% 25V	2030	4011110	1.0nF 10% 50V
2003	4201352	47μF 16V	2031	4010274	100nF -20+80% 25V
2004	4011123	12nF 10% 50V	2032	4201352	47μF 16V
2005	4010271	10nF 10% 50V	2033-	4010274	100nF -20+80% 25V
2006	4001141	330pF 5% 50V	2034		
		330pF 5% 50V 330pF 5% 50V	2034 2035	4011110	1.0nF 10% 50V
2006	4001141				1.0nF 10% 50V 100nF -20+80% 25V
2006 2007 2008 2009	4001141 4201353 4010274	330pF 5% 50V 22µF 6.3V 100nF -20+80% 25V	2035 2036 2037	4010274 4201353	100nF -20+80% 25V 22μF 6.3V
2006 2007 2008 2009 2015	4001141 4201353 4010274 4001144	330pF 5% 50V 22µF 6.3V 100nF -20+80% 25V 560pF 5% 50V	2035 2036 2037 2038	4010274 4201353 4010274	100nF -20+80% 25V 22μF 6.3V 100nF -20+80% 25V
2006 2007 2008 2009 2015 2016	4001141 4201353 4010274 4001144 4011112	330pF 5% 50V 22μF 6.3V 100nF -20+80% 25V 560pF 5% 50V 1.5nF 10% 50V	2035 2036 2037 2038 2039	4010274 4201353 4010274 4201354	100nF -20+80% 25V 22μF 6.3V 100nF -20+80% 25V 15μF 10V
2006 2007 2008 2009 2015 2016 2017	4001141 4201353 4010274 4001144 4011112	330pF 5% 50V 22µF 6.3V 100nF -20+80% 25V 560pF 5% 50V	2035 2036 2037 2038 2039 2040	4010274 4201353 4010274 4201354 4201355	100nF -20+80% 25V 22μF 6.3V 100nF -20+80% 25V 15μF 10V 4.7μF 10V
2006 2007 2008 2009 2015 2016 2017 2022	4001141 4201353 4010274 4001144 4011112 4001139	330pF 5% 50V 22μF 6.3V 100nF -20+80% 25V 560pF 5% 50V 1.5nF 10% 50V 220pF 5% 50V	2035 2036 2037 2038 2039 2040 2041	4010274 4201353 4010274 4201354 4201355 4010274	$\begin{array}{l} 100nF - 20 + 80\% \ 25V \\ 22\mu F \ 6.3V \\ 100nF - 20 + 80\% \ 25V \\ 15\mu F \ 10V \\ 4.7\mu F \ 10V \\ 100nF - 20 + 80\% \ 25V \end{array}$
2006 2007 2008 2009 2015 2016 2017 2022 2023	4001141 4201353 4010274 4001144 4011112 4001139	330pF 5% 50V 22μF 6.3V 100nF -20+80% 25V 560pF 5% 50V 1.5nF 10% 50V 220pF 5% 50V	2035 2036 2037 2038 2039 2040 2041 2042	4010274 4201353 4010274 4201354 4201355 4010274 4010272	$\begin{array}{l} 100 nF - 20 + 80\% \ 25V \\ 22 \mu F \ 6.3V \\ 100 nF - 20 + 80\% \ 25V \\ 15 \mu F \ 10V \\ 4.7 \mu F \ 10V \\ 100 nF - 20 + 80\% \ 25V \\ 22 nF - 20 + 80\% \ 50V \end{array}$
2006 2007 2008 2009 2015 2016 2017 2022 2023 2024-	4001141 4201353 4010274 4001144 4011112 4001139	330pF 5% 50V 22μF 6.3V 100nF -20+80% 25V 560pF 5% 50V 1.5nF 10% 50V 220pF 5% 50V	2035 2036 2037 2038 2039 2040 2041 2042 2043	4010274 4201353 4010274 4201354 4201355 4010274 4010272 4000408	$\begin{array}{c} 100 nF - 20 + 80\% \ 25V \\ 22 \mu F \ 6.3V \\ 100 nF - 20 + 80\% \ 25V \\ 15 \mu F \ 10V \\ 4.7 \mu F \ 10V \\ 100 nF - 20 + 80\% \ 25V \\ 22 nF - 20 + 80\% \ 50V \\ 47 pF \ 5\% \ 50V \end{array}$
2006 2007 2008 2009 2015 2016 2017 2022 2023 2024- 2025	4001141 4201353 4010274 4001144 4011112 4001139 4201353 4010274	330pF 5% 50V 22μF 6.3V 100nF -20+80% 25V 560pF 5% 50V 1.5nF 10% 50V 220pF 5% 50V 22μF 6.3V 100n -20+80% 25V	2035 2036 2037 2038 2039 2040 2041 2042 2043 2044	4010274 4201353 4010274 4201354 4201355 4010274 4010272 4000408 4001146	$\begin{array}{c} 100 nF - 20 + 80\% \ 25V \\ 22 \mu F \ 6.3V \\ 100 nF - 20 + 80\% \ 25V \\ 15 \mu F \ 10V \\ 4.7 \mu F \ 10V \\ 100 nF - 20 + 80\% \ 25V \\ 22 nF - 20 + 80\% \ 50V \\ 47 pF \ 5\% \ 50V \\ 820 pF \ 5\% \ 50V \end{array}$
2006 2007 2008 2009 2015 2016 2017 2022 2023 2024-	4001141 4201353 4010274 4001144 4011112 4001139 4201353 4010274	330pF 5% 50V 22μF 6.3V 100nF -20+80% 25V 560pF 5% 50V 1.5nF 10% 50V 220pF 5% 50V	2035 2036 2037 2038 2039 2040 2041 2042 2043	4010274 4201353 4010274 4201354 4201355 4010274 4010272 4000408 4001146 4010272	$\begin{array}{l} 100 nF - 20 + 80\% \ 25V \\ 22 \mu F \ 6.3V \\ 100 nF - 20 + 80\% \ 25V \\ 15 \mu F \ 10V \\ 4.7 \mu F \ 10V \\ 100 nF - 20 + 80\% \ 25V \\ 22 nF - 20 + 80\% \ 50V \\ 47 pF \ 5\% \ 50V \end{array}$

PCB	89,	800	1814
CD I	nte	rfac	e

~									
2048		5.6pF 5% 50V	2077		1nF 5% 50V				
2049					24 1nF 5% 50V				
2050		4201355 4.7μF 10V		•			4201356 1μF 16V		
2051		010274 100nF -20+80% 25V			15μF 10V				
2060		4201356 1μF 16V		4010274	100nF -20+80% 25V				
2061		4.7μF 10V	2084						
2063		100nF -20+80% 25V	2094		47μF 16V				
2070		15μF 10V	2095		470pF 5% 50V				
2071-	4010274	100nF -20+80% 25V	2097		47μF 16V				
2072			2098		470pF 5% 50V				
2073	4201354	15μF 10V	2101	4000408	47pF 5% 50V				
2075-	4010274	100nF -20+80% 25V	2102	4201357	10μF 16V				
2076			2103	4010274	100nF -20+80% 25V				
1200	8090157	Crystal 33.868MHz							
5000	8020822	Coil 3.3μH	5003	8030246	Coil 12MHz				
1000		Plug 4 pole	1004-	7221157	Plug 6 pole				
1001		Socket 16 pole	1005						
1002	7210890	Socket 6 pole	1006	7221131	Plug 4 pole				
1003	7221082	Plug 2 pole							
IC1	8340796	106 7805	IC3-	8341022	150 4558				
IC2	8341041		IC4						
TR2	8320755	051 BC847B	TR4	8320755	051 8C847B				
TR3	8321050		TR5	8320811					
		209 Z6.2V 5%							
D003	8300201								
D003		15.4kO 1% 1/8W	R34-	5012331	10kΩ 1% 1/10W				
R 02 7-		15.4kΩ 1% 1/8W	R34-	5012331	10kΩ 1% 1/10W				
R027- R028	5011986		R35						
R027- R028 R29-	5011986	15.4kΩ 1% 1/8W 4.87kΩ 1% 1/10W	R35 R36-		10kΩ 1% 1/10W 10kΩ 1% 1/8W				
R027- R028 R29- R30	5011986 5012290	4.87kΩ 1% 1/10W	R35 R36- R39	5011557	10kΩ 1% 1/8W				
R027- R028 R29- R30 R31- R32	5011986 5012290		R35 R36-	5011557					
R027- R028 R29- R30 R31- R32	5011986 5012290 5012297	4.87kΩ 1% 1/10W 5.62kΩ 1% 1/10W	R35 R36- R39 R40- R41	5011557 5012331	10kΩ 1% 1/8W 10kΩ 1% 1/10W				
R027- R028 R29- R30 R31- R32	5011986 5012290 5012297	4.87kΩ 1% 1/10W	R35 R36- R39 R40- R41	5011557 5012331	10kΩ 1% 1/8W				
R027- R028 R29- R30 R31- R32	5011986 5012290 5012297 4000351	4.87kΩ 1% 1/10W 5.62kΩ 1% 1/10W 1.5nF 5% 50V	R35 R36- R39 R40- R41 	5011557 5012331 4201173	10kΩ 1% 1/8W 10kΩ 1% 1/10W 10μF 20% 50V				
R027- R028 R29- R30 R31- R32	5011986 5012290 5012297 4000351	4.87kΩ 1% 1/10W 5.62kΩ 1% 1/10W	R35 R36- R39 R40- R41 	5011557 5012331 4201173	10kΩ 1% 1/8W 10kΩ 1% 1/10W				
R027- R028 R29- R30 R31- R32	5011986 5012290 5012297 4000351 4000414	4.87kΩ 1% 1/10W 5.62kΩ 1% 1/10W 1.5nF 5% 50V 150pF 5% 50V	R35 R36- R39 R40- R41 C20- C21 C23- C24	5011557 5012331 4201173 4201174	10kΩ 1% 1/8W 10kΩ 1% 1/10W 10μF 20% 50V 2.2μF 20% 50V				
R027- R028 R29- R30 R31- R32 C1- C2 C3- C4	5011986 5012290 5012297 4000351 4000414	4.87kΩ 1% 1/10W 5.62kΩ 1% 1/10W 1.5nF 5% 50V	R35 R36- R39 R40- R41 C20- C21 C23- C24 C25	5011557 5012331 4201173 4201174 4200524	10kΩ 1% 1/8W 10kΩ 1% 1/10W 10μF 20% 50V 2.2μF 20% 50V 10μF 20% 25V				
R027- R028 R29- R30 R31- R32 	5011986 5012290 5012297 4000351 4000414 4000416	4.87kΩ 1% 1/10W 5.62kΩ 1% 1/10W 1.5nF 5% 50V 150pF 5% 50V 220pF 5% 50V	R35 R36- R39 R40- R41 C20- C21 C23- C24 C25 C26	5011557 5012331 4201173 4201174 4200524 4010274	10kΩ 1% 1/8W 10kΩ 1% 1/10W 10μF 20% 50V 2.2μF 20% 50V 10μF 20% 25V 100nF -20+80% 25V				
R027- R028 R29- R30 R31- R32 C1- C2 C3- C4 C5- C6	5011986 5012290 5012297 4000351 4000414 4000416	4.87kΩ 1% 1/10W 5.62kΩ 1% 1/10W 1.5nF 5% 50V 150pF 5% 50V	R35 R36- R39 R40- R41 C20- C21 C23- C24 C25 C26 C30	5011557 5012331 4201173 4201174 4200524 4010274 4010272	10kΩ 1% 1/8W 10kΩ 1% 1/10W 10μF 20% 50V 2.2μF 20% 50V 10μF 20% 25V 100nF -20+80% 25V 22nF -20+80% 50V				
R027- R028 R29- R30 R31- R32 C1- C2 C3- C4 C5- C6 C11- C13	5011986 5012290 5012297 4000351 4000414 4000416 4010314	4.87kΩ 1% 1/10W 5.62kΩ 1% 1/10W 1.5nF 5% 50V 150pF 5% 50V 220pF 5% 50V 220nF -20+80% 25V	R35 R36- R39 R40- R41 C20- C21 C23- C24 C25 C26 C30 C31	5011557 5012331 4201173 4201174 4200524 4010274 4010272 4010166	10kΩ 1% 1/8W 10kΩ 1% 1/10W 10μF 20% 50V 2.2μF 20% 50V 10μF 20% 25V 100nF -20+80% 25V 22nF -20+80% 50V 100nF -20+80% 50V				
R027- R028 R29- R30 R31- R32 C1- C2 C3- C4 C5- C6 C11- C13	5011986 5012290 5012297 4000351 4000414 4000416 4010314	4.87kΩ 1% 1/10W 5.62kΩ 1% 1/10W 1.5nF 5% 50V 150pF 5% 50V 220pF 5% 50V	R35 R36- R39 R40- R41 C20- C21 C23- C24 C25 C26 C30 C31 C37-	5011557 5012331 4201173 4201174 4200524 4010274 4010272 4010166	10kΩ 1% 1/8W 10kΩ 1% 1/10W 10μF 20% 50V 2.2μF 20% 50V 10μF 20% 25V 100nF -20+80% 25V 22nF -20+80% 50V 100nF -20+80% 50V				
R027- R028 R29- R30 R31- R32 C1- C2 C3- C4 C5- C6 C11- C13 C14- C16	5011986 5012290 5012297 4000351 4000414 4000416 4010314 4010272	4.87kΩ 1% 1/10W 5.62kΩ 1% 1/10W 1.5nF 5% 50V 150pF 5% 50V 220pF 5% 50V 220nF -20+80% 25V 22nF -20+80% 50V	R35 R36- R39 R40- R41 C20- C21 C23- C24 C25 C26 C30 C31	5011557 5012331 4201173 4201174 4200524 4010274 4010272 4010166	10kΩ 1% 1/8W 10kΩ 1% 1/10W 10μF 20% 50V 2.2μF 20% 50V 10μF 20% 25V 100nF -20+80% 25V				
R027- R028 R29- R30 R31- R32 C1- C2 C3- C4 C5- C6 C11- C13 C14- C16 C17-	5011986 5012290 5012297 4000351 4000414 4000416 4010314 4010272	4.87kΩ 1% 1/10W 5.62kΩ 1% 1/10W 1.5nF 5% 50V 150pF 5% 50V 220pF 5% 50V 220nF -20+80% 25V	R35 R36- R39 R40- R41 C20- C21 C23- C24 C25 C26 C30 C31 C37-	5011557 5012331 4201173 4201174 4200524 4010274 4010272 4010166	10kΩ 1% 1/8W 10kΩ 1% 1/10W 10μF 20% 50V 2.2μF 20% 50V 10μF 20% 25V 100nF -20+80% 25V 22nF -20+80% 50V 100nF -20+80% 50V				
R027- R028 R29- R30 R31- R32 C1- C2 C3- C4 C5- C6 C11- C13 C14- C16 C17-	5011986 5012290 5012297 4000351 4000414 4000416 4010314 4010272 4010274	4.87kΩ 1% 1/10W 5.62kΩ 1% 1/10W 1.5nF 5% 50V 150pF 5% 50V 220pF 5% 50V 220nF -20+80% 25V 22nF -20+80% 50V 100nF -20+80% 25V	R35 R36- R39 R40- R41 C20- C21 C23- C24 C25 C26 C30 C31 C37-	5011557 5012331 4201173 4201174 4200524 4010274 4010272 4010166	10kΩ 1% 1/8W 10kΩ 1% 1/10W 10μF 20% 50V 2.2μF 20% 50V 10μF 20% 25V 100nF -20+80% 25V 22nF -20+80% 50V 100nF -20+80% 50V				
R027- R028 R29- R30 R31- R32 C1- C2 C3- C4 C5- C6 C11- C13 C14- C16 C17- C19	5011986 5012290 5012297 4000351 4000414 4000416 4010314 4010272 4010274	4.87kΩ 1% 1/10W 5.62kΩ 1% 1/10W 1.5nF 5% 50V 150pF 5% 50V 220pF 5% 50V 220nF -20+80% 25V 22nF -20+80% 50V	R35 R36- R39 R40- R41 C20- C21 C23- C24 C25 C26 C30 C31 C37-	5011557 5012331 4201173 4201174 4200524 4010274 4010272 4010166 4010314	10kΩ 1% 1/8W 10kΩ 1% 1/10W 10μF 20% 50V 2.2μF 20% 50V 10μF 20% 25V 100nF -20+80% 25V 22nF -20+80% 50V 100nF -20+80% 50V				
R027- R028 R29- R30 R31- R32 C1- C2 C3- C4 C5- C6 C11- C13 C14- C16 C17- C19	5011986 5012290 5012297 4000351 4000414 4000416 4010314 4010272 4010274	4.87kΩ 1% 1/10W 5.62kΩ 1% 1/10W 1.5nF 5% 50V 150pF 5% 50V 220pF 5% 50V 220nF -20+80% 25V 22nF -20+80% 50V 100nF -20+80% 25V	R35 R36- R39 R40- R41 C20- C21 C23- C24 C25 C26 C30 C31 C37- C38	5011557 5012331 4201173 4201174 4200524 4010274 4010272 4010166 4010314	10kΩ 1% 1/8W 10kΩ 1% 1/10W 10μF 20% 50V 2.2μF 20% 50V 10μF 20% 25V 100nF -20+80% 25V 22nF -20+80% 50V 100nF -20+80% 50V 220nF -20+80% 25V				
R027- R028 R29- R30 R31-	5011986 5012290 5012297 4000351 4000414 4000416 4010314 4010272 4010274	4.87kΩ 1% 1/10W 5.62kΩ 1% 1/10W 1.5nF 5% 50V 150pF 5% 50V 220pF 5% 50V 220nF -20+80% 25V 22nF -20+80% 50V 100nF -20+80% 25V	R35 R36- R39 R40- R41 C20- C21 C23- C24 C25 C26 C30 C31 C37- C38	5011557 5012331 4201173 4201174 4200524 4010274 4010272 4010166 4010314 7220711 7220713	10kΩ 1% 1/8W 10kΩ 1% 1/10W 10μF 20% 50V 2.2μF 20% 50V 10μF 20% 25V 100nF -20+80% 25V 22nF -20+80% 50V 100nF -20+80% 50V 220nF -20+80% 25V				

For other electrical parts see section 3.

LIST OF ELECTRICAL PARTS

Standar	d re	sistor	S
Resistors	5%	1/2W	

x10k x10 x100 x1k x100k x1M 5011001 5011002 5011014 5011045 5011058 5011059 5011030 5010421 5010727 5011335 5011612 5010708 5010803 5010815 5011018 5011034 5010055 5011048 5011049 5011074 5011075 5011062 3.3 3.9 4.7 5010782 5011009 5011021 5011022 5010035 5010036 5011065 5011078 5011011 5011012 5011024 5011026 5011042 5011043 5010810 5011066 5010038 5011068

Resistors 5% 1/4W

x10M ×1 ×10 x100 x1k x10k x100k x1M 1.0 1.2 1.5 5011348 5010468 5010057 5010247 5010046 5010047 5010053 5010063 5010093 5010448 5010403 5010092 5010000 5010064 5010298 5010079 5010141 50100/2 5010120 5010083 5010/91 5010245 5010431 5010925 5010714 5011513 3.3 3.9 4.7 5011377 5010888 5010622 5010411 5010069 5010048 5010060 5010045 5010073 5010077 5010070 5010058

5010039 5010056

2%

x10

5011648 5011649

5010144

x100

5011669 5011219

5011220

5.6 6.8 8.2

5010904 5010880

x1

5011624 5011625

 1.3
 5011626
 5011650

 1.5
 5011627
 5011651

 1.6
 5011628
 5011652

Resistors 5% 1/8W

x10M x10 x100 x1k x10k x100k 5011341 5011398 5011351 5011463 5011084 5011443 5011442 5011338 5011364 5011175 5010886 5011355 5011353 5011362 5010833 5011366 5011369 5011370 1.8 2.2 2.7 5011471 5020876 5011611 3.3 3.9 4.7 5011438 5011038 5011817 5011441 5011157 5011363 5011457 5010937 5011372 5011343 5.6 6.8 8.2 5011356 5011466 5011336 5011354 5010839 5011339 5011166 5011340 5011367 5011458 5011368 5011373

x1k

5011681 5011682

5011228

5010052 5010154

5010062

x10k

5011689 5011490

5010074 5010505

2%

x100k

5011694 5011257

5011242 5011258 5011243 5011259 5011690 5011695

x1M

5011707

2%

x10M

Resistors SMD 2% 1/8W SMD 5% 1/8W

Glue dots, approx. 200, part no. 3181932

Resistors SMD 5% 1/10W

Glue dots, approx. 200, part no. 3181932

1.8 2.0 2.2	5011629 5011630 5011216	5011653 5011654 5011655	5011672 5011673 5011674	5011229 5011685 5011230	5011244 5011691 5011245	5011260 5011696 5011261	5011712 5011713 5011714	
2.4 2.7 3.0	5011634 5011635 5011731	5011656 5011657 5011658	5011675 5011497 5011499	5011686 5011231 5011500	5011246 5011247 5011692	5011697 5011262 5011698	5011715 5011716 5011717	
3.3 3.6 3.9	5011217 5011636 5011637	5011659 5011660 5011661	5011676 5011677 5011221	5011232 5011687 5011233	5011248 5011249 5011491	5011263 5011264 5011699	5011718 5011719 5011720	
4.3 4.7 5.1	5011638 5011639 5011640	5011662 5011269 5011663	5011498 5011222 5011678	5011688 5011234 5011235	5011492 5011250 5011493	5011700 5011265 5011701	5011721 5011722 5011723	
5.6 6.2 6.8	5011641 5011642 5011643	5011664 5011665 5011666	5011223 5011224 5011225	5011236 5011237 5011238	5011251 5011693 5011252	5011702 5011703 5011704	5011724 5011725 5011726	
7.5 8.2 9.1	5011644 5011645 5011646	5011667 5011270 5011668	5011679 5011226 5011680	5011239 5011240 5011489	5011253 5011254 5011255	5011705 5011266 5011706	5011727 5011728 5011729	
	x1	x10	x100	x1k	x10k	x100k	x1M	x10M
0.0 1.0 1.2	6000072 5012326	5011920 5011921	5011932 5011933	5011944 5011945	5011956 5011957	5011968 5011969	5011980 5012267	5012275
1.5 1.8 2.2	5012235	5011922 5011923 5011924	5011934 5011935 5011936	5011946 5011947 5011948	5011958 5011959 5011960	5011970 5011971 5011972	5012268 5011989 5012220	·
2.7 3.3 3.9		5011925 5011926 5011927	5011937 5011938 5011939	5011949 5011950 5011951	5011961 5011962 5011963	5011973 5011974 5011975	5012269 5012261 5012270	
4.7 5.6 6.8 8.2		5011928 5011929 5011930 5011931	5011940 5011941 5011942 5011943	5011952 5011953 5011954 5011955	5011964 5011965 5011966 5011967	5011976 5011977 5011978 5011979	5012271 5012272 5012273 5012274	

LIST OF MECHANICAL PARTS

Front

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See drawing page 4-1

Tione	see arawing page 4 7					
		Beocenter 2500	Beocenter 2300	Master Panel AV9000	BeoSound Ouverture	
	0506	3151357			3151357	Holder
	9028 9032 9033 9037	3162461	3162461	3162461 3112418 2515001 2038118	3162461	Cover Cover Chassis Wire holder Screw, 3x6 Chassis
	3431	2515001 2038118	2515001 2038118		2515001 2038118	Wire holder Screw, 3x6
	98	8420201	8420201	8420201	8420201	CD mechanism
Screws etc.	1	2038133	2038133	2038133	2038133	Screw, 3x11
Survey of wire bundles		6277019	6277019	6277019	6277019	Wire bundle for CD Servo & Decoder and CD Interface 88P1006 - 89P207 88P1000 - 89P200 88P1004 - 89P204
		6276990 2P11 - 89P67 2P16 - 7P56 2P15 - 89P65 2P12 - 89P66 2P17 - 5P41 2P19 - 7P53 2P18 - 6P49 2P25 - HTLFP26 2P22 - 7P55 2P24 - MotP76 3P36 - 5P41 3P29 - 7P54 3P32 - 6P46 3P30 - 89P68 3P27 - MotP77 IRLP48 - 6P82 MotP80 - 5P46	3P32 - 6P46 3P30 - 89P68 3P27 - MotP77 (RLP48 - 6P82 MotP80 - 5P46	2P18 - 6P49 2P22 - 7P55 2P24 - 9P76 3P36 - 5P41 3P29 - 7P54 3P32 - 6P46	6276994 3P26 - 5P42 3P27 - 9P77 3P32 - 6P46 3P30 - 89P6 3P29 - 7P54 9P80 - 5P46 9P76 - 6P13 12P11 - 89P 12P12 - 89P 12P15 - 89P 12P16 - 7P5 12P17 - 5P4 12P18 - 6P4 12P19 - 7P5 12P22 - 7P5 12P25 - 18P 12P108 - 13 15P24 - 6P1	8 67 66 65 6 1 9 3 5 26 P130

4	-		4
ш		-	1

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MODIFICATIONS

17 - 1

SERVICE TIPS AND CORRECTIONS

Bang&Olufsen

ELECTRICAL MODIFICATIONS IN RELAITION TO OLD VERSION

Beocenter/

Beosystem 2300-2500 Master Panel AV9000 BeoSound Ouverture

PCB8

PCB8

PCB8

Replaced by PCB88 CD Servo & Decoder and PCB89 CD interface.

Removed.

Removed

PCB20 Disc Detector

2R3, 2C4, 2D2 & 2TR5

PCB20 Disc Detector

2R3, 2R200, 2C4, 2D2 & 2TR5

12R113, 12R23,

12C61, 12D7 & 12TR2

SERVICE TIPS

Starting up

When starting up the CD section, 5VC for the CD servo & decoder, PCB 88, has to switch on approx. 200 ms before 9V. This is important because the microcomputer system at PCB 88 has to be reset before voltage is applied to the motor control circuits.

CD starting procedure

When starting up, the first step in the procedure is to search for focus, then the disc motor starts, the radial loop is locked, and the search for the "lead in" is started.

Disc motor does not start

If focus is searched and the laser switches on, and yet the disc motor does not rotate, the error is probably in the transport mechanism itself. For further service tips, see section 5 (section 7 as regards Beocenter/ Beosystem 2500-2300).

SERVICE-TIPS

Anfahren

Beim Anfahren des CD-Teils muß 5VC für den CD Servo & Decoder, PCB 88, um ca. 200 ms vor 9V einschalten. Dies ist wichtig, damit das Mikrocomputersystem auf PCB 88 zurückgesetzt wird, ehe Spannung auf

die Motorsteuerschaltkreise gelangt.

CD-Anfahrvorgang

Beim Anfahren erfolgt zuerst ein Fokussuchvorgang, der Disc-Motor läuft an, die Radial-Servo-Schleife rastet ein, und es wird nach "lead in" gesucht.

Disc-Motor läuft nicht an

Wird nach Fokus gesucht und zündet gleichzeitig der Laser, der Motor rotiert aber nicht, so ist der Fehler warscheinlich im Laufwerk selbst zu suchen. Siehe hierzu im übrigen Service-Tips Abschnitt 5 (Abschnitt 7 für Beocenter/Beosystem 2500-2300).

CONSEILS DE MAINTENANCE

Mise en route

Lors de la mise en route du bloc CD, la ligne 5VC alimentant la carte PCB 88 "CD Servo & Decoder" doit s'amorcer quelque 200 ms avant la ligne 9V. Ce décalage est important car il permet la réinitialisation des microcalculateurs de la carte PCB 88 avant la mise sous tension des circuits de commande du moteur.

Procédure de mise en route du CD

Lors de la mise en route, la recherche porte d'abord sur le point de concentration. Puis le moteur de rotation du disque démarre, la boucle radiale se verrouille et le sillon de départ fait l'objet d'une recherche.

Moteur de rotation du disque : refus de démarrer

L'anomalie se trouve vraisemblablememt dans le mécanisme d'entraînement à proprement parler si le moteur de rotation du disque refuse de tourner après avoir recherché le point de concentration et excité le laser. Se reporter également aux conseils de maintenance du paragraphe 5 (paragraphe 7 pour les Beocenter/Beosystem 2500-2300).